

2-1-1946

The 1945 Iowa corn yield test

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Robinson, Joe L. and Reiss, Francis (1946) "The 1945 Iowa corn yield test," *Bulletin P*: Vol. 3 : Bulletin P79 , Article 1.
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FEBRUARY, 1946

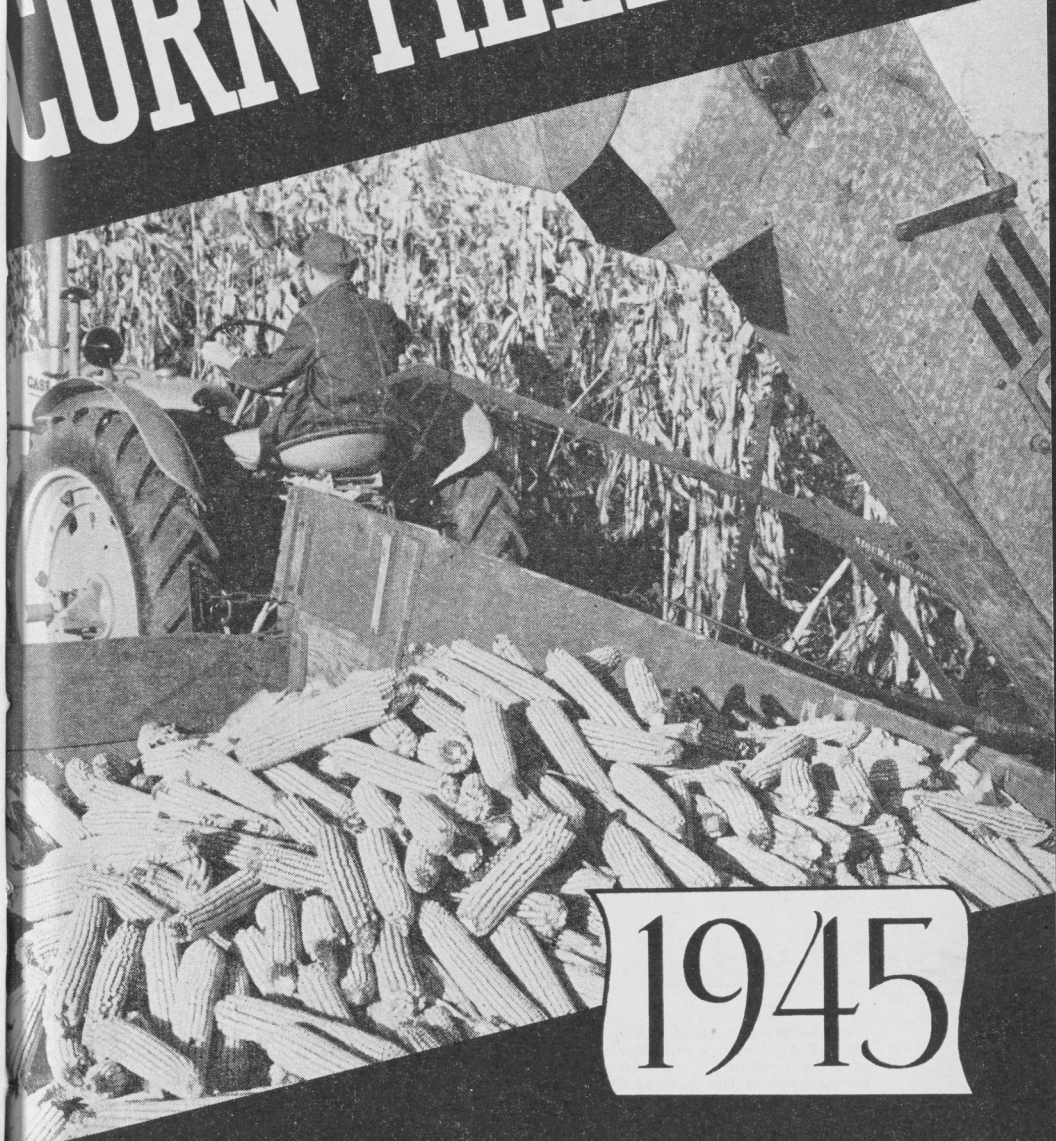
BULLETIN P17

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IOWA STATE DEPARTMENT OF AGRICULTURE

MAY 22 1946

Iowa CORN YIELD TEST



1945

AGRICULTURAL EXPERIMENT STATION—AGRICULTURAL EXTENSION SERVICE
IOWA CORN AND SMALL GRAIN GROWERS' ASSOCIATION
BUREAU OF PLANT INDUSTRY, SOILS AND AGRICULTURAL ENGINEERING
AGRICULTURAL RESEARCH ADMINISTRATION
UNITED STATES DEPARTMENT OF AGRICULTURE, Cooperating

Cooperative Extension Work in Agriculture and Home Economics, Iowa State College of Agriculture and Mechanic Arts and the United States Department of Agriculture Cooperating. Extension Service, R. K. Bliss, director, Ames, Iowa. Distributed in furtherance of the Acts of Congress of May 8 and June 30, 1914.

Agricultural Experiment Station, Iowa State College of Agriculture and Mechanic Arts, R. E. Buchanan, director, Ames, Iowa.

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SUMMARY

1. The state was divided into four sections from north to south, with each section further divided from west to east into three districts. A testing field was located in each of the 12 districts. Excessive rainfall prevented planting the District 11 test field and destroyed the District 2 field following planting. The District 3 field was not harvested because of extreme immaturity.
2. Each entry was planted in all three districts of a section. A producer was not permitted to enter the same variety in more than two adjoining sections. A total of 81 entries were tested in each section.
3. Ten widely grown hybrids, as determined by a survey of farmers, were entered in each section by the Iowa Corn and Small Grain Growers' Association.
4. All seed used for planting, except a part of that for the composite entries made by the Iowa Agricultural Experiment Association and a few of the experimental entries, was taken by a representative of the Iowa Corn and Small Grain Growers' Association from supplies in the producers warehouse, on the market, or from seed purchased by farmers.
5. A 9 x 9 triple lattice field design was used. Each entry was replicated six times at each location. All seed was hand planted at the rate of 3 kernels per hill.
6. Acre yield in bushels of shelled corn is reported on the basis of 15.5 percent moisture in the grain. Data also are included for field stand, moisture content at harvest, root and stalk lodging, ear height and dropped ears. The entries are ranked in the tables on the basis of a performance score computed from yield, dry matter content of the grain, lodging resistance and freedom from dropped ears.
7. The analysis of variance was computed for each district, with the number of bushels necessary for a significant difference between the yield of any two entries indicated in each district and section table.
8. The average performance of each entry for the various districts of the section is given in the section tables. Since only one district was harvested in the Northern Section the table for that section has been omitted.
9. Summary tables are presented showing the average performance over a period of years for entries in the 1945 test that were identical with those tested in 1, 2, or 3 previous years and entered consecutively by the same entrant.

The 1945 Iowa Corn Yield Test¹

By JOE L. ROBINSON² AND FRANCIS REISS³

The Iowa Corn Yield Test attempts to provide comparable performance records on a relatively large number of hybrid combinations. Some of these on which information is presented are well established strains of known performance while others are new and relatively unknown to most Iowa farmers. Data are presented on each hybrid for yield, stand, moisture, root and stalk lodging, ear height and dropped ears. A performance score has been calculated for use in evaluating the relative agronomic value of the hybrids tested. It is believed that the information presented should afford a reliable estimate on the relative performance of a number of hybrids when grown in different areas of the state.

LOCATION OF TEST FIELDS

The state was divided into four sections, Northern, North Central, South Central and Southern. Each of the four sections was further divided into three districts from west to east, making a total of 12 districts for the entire state. The division of the state into sections and districts is shown in fig. 1. A test field was located in each district. The name and address of the cooperator on whose farm the test field was located, together with the dates of planting and harvesting, are shown in table 1.

¹Project 161 of the Iowa Agricultural Experiment Station. The Iowa Corn Yield Test is conducted cooperatively by the Iowa Corn and Small Grain Growers' Association; Farm Crops Subsection, Iowa Agricultural Experiment Station; and the Division of Cereal Crops and Diseases, Bureau of Plant Industry, Soils and Agricultural Engineering, Agricultural Research Administration, United States Department of Agriculture.

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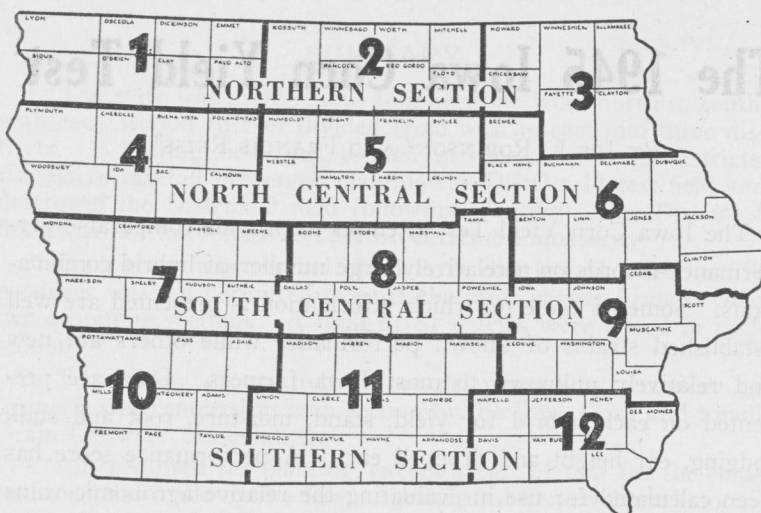


Fig. 1. Division of the state into section and districts.

TABLE 1. LOCATION OF TEST FIELDS AND DATES OF PLANTING AND HARVESTING.

Dist.	Cooperator	Post office	County	Date planted	Date harvested
1	Alvin Linch.....	Sheldon.....	Sioux.....	May 24.....	Nov. 15
2	Bruce Carson.....	Leland.....	Winnebago.....	May 25.....	
3	John Brockmeyer..	Lime Springs..	Howard.....	June 18.....	
4	J. N. Horlacher & Son.....	Storm Lake....	Buena Vista....	May 19.....	Nov. 7
5	R. W. Hagie.....	Clarion.....	Wright.....	May 18.....	Nov. 1-2
6	Lewis Greaser.....	Vinton.....	Benton.....	May 19.....	Oct. 31-Nov. 1
7	John Oeser.....	Westside.....	Crawford.....	May 18.....	Nov. 6
8	Agromony Farm....	Ames.....	Story.....	May 16.....	Oct. 29
9	Louis Thordsen....	Tipton.....	Cedar.....	May 25.....	Nov. 10-13
10	Richard A. Hyde....	Hastings.....	Mills.....	June 4.....	Nov. 6-7
11	Warren Rouse.....	Albia.....	Monroe.....		
12	H. H. McAllister & Son.....	Mt. Union.....	Henry.....	May 23.....	Nov. 15

ENTRIES

The entries were divided into two classes according to the quantity of seed of the particular entry produced by the entrant. Hybrids produced in a quantity of less than 50 bushels were placed in the experimental class, while those produced in a quantity of 50 or more bushels were placed in the regular class. Entries were accepted only on a section basis and must have been made under the name of the producer of the seed, with the exception of composite entries made by the Iowa Agricultural Experiment Association and entries of widely grown hybrids made by the Iowa Corn and Small Grain Growers' Association.

A producer was not permitted to enter the same variety in more than two sections, and those sections must have been adjoining.

Ten widely grown hybrids in each section, as determined by a survey of farmers, were entered by the Iowa Corn and Small Grain Growers' Association. The Iowa Agricultural Experiment Association was permitted to make a sufficient number of composite entries to maintain performance records for certification. The Farm Crops Subsection and the U. S. D. A. were permitted, jointly, to make 12 experimental entries per section, and the Genetics Section was permitted two experimental entries in each section. Entrants other than those previously specified were permitted seven entries per section, three of which must have been produced in quantities in excess of 5,000 bushels, two in excess of 1,000 bushels, and two may have been in a quantity of less than 1,000 bushels.

Eighty-one entries were tested in each section. When the number of applications for entry in a section exceeded 81, it was reduced to that number by a prearranged reducing method. It was necessary to use the reducing method in each of the four sections. A total of 324 section entries were tested in 1945, as compared to 256 in 1944. The distribution of the entries between the regular and the experimental classes for each section is shown in table 2.

TABLE 2. DISTRIBUTION OF ENTRIES IN THE 1945 IOWA CORN YIELD TEST.

Section	Regular	Experimental	Total
Northern (Districts 1, 2, 3).....	58	23	81
North Central (Districts 4, 5, 6).....	60	21	81
South Central (Districts 7, 8, 9).....	59	22	81
Southern (Districts 10, 11, 12).....	61	20	81
Total.....	238	86	324

METHOD OF OBTAINING SEED

The applicant indicated the number of bushels of each variety produced in 1944 and the location on March 10, 1945, of at least one-half the total supply of seed. A representative of the Iowa Corn and Small Grain Growers' Association collected samples for all entries in the regular class, with the exception of a part of the composite entries, and the major portion of the entries in the experimental class. Seed for some of the composite samples was supplied upon request by producers and for a few of the experi-

mental entries by the entrant. The samples collected by a representative of the Association were taken from supplies of seed in the possession of the producer, on the market, or from seed already purchased by farmers.

IDENTIFICATION OF ENTRIES

At the time the seed was packaged for planting each entry was assigned a number by which it was identified until after the field data had been collected and the results calculated. A list of these numbers, together with the corresponding variety designation and entrant's name, was placed in the College Savings Bank at Ames. A sealed copy of the list also was forwarded to the vice-president of the Iowa Corn and Small Grain Growers' Association for safe keeping. The identification list was not removed from the bank until after the district and section calculations had been completed and a sealed copy of the same forwarded to the vice-president of the Iowa Corn and Small Grain Growers' Association. The identity as to variety or producer of any of the entries was not known during the period of conducting the yield test and calculating the results.

METHOD USED

Each entry was planted in a 2 by 10 hill plot, replicated six times in a 9 x 9 triple lattice design. The distribution of the entries in each block and the distribution of the blocks in each replication were randomized. In order to insure a uniform number of kernels to the hill the seed was hand planted at the rate of three kernels per hill.

The data for percent stand, ear height and missing hills were obtained during the latter part of August and in September. All other field data were collected at harvest. Ear height was recorded in five grades based on the distance from the base of the plant to the place of attachment of the shank to the stalk. The ear height for each of the grades is given below:

- Grade 1 Under 24 inches
- Grade 2 24-36 inches
- Grade 3 36-48 inches
- Grade 4 48-60 inches
- Grade 5 Over 60 inches

Stalk lodging was determined by counting the number of plants broken below the ear. This number is expressed in percent of the total number of plants. Root lodging also was determined in a similar manner for all stalks that were leaning more than 30 degrees or stalks the position of which indicated a weak root system. The percentage of dropped ears was determined by dividing the number of ears detached from the stalks by the number of plants. The data for lodging and dropped ears were obtained immediately preceding harvest. Two samples for moisture and one for damaged corn determinations were obtained for each entry in each district at harvest time by removing two rows of kernels from each of 45 ears taken at random from three of the six replications. Moisture determinations were made with a Tag-Heppenstall moisture meter. The moisture percentages reported are the average of the duplicate samples. The damaged corn determinations were not believed to be comparable and have not been included.

Field weights were corrected for plots having five or less missing hills. No correction was made for an imperfect stand unless the entire hill was missing. In those cases where an individual plot had more than five missing hills the data for that plot were not included, although a theoretical yield was calculated for that plot. All such corrections were made before computation of the analysis of variance. The field weight of ear corn was converted to bushels per acre of shelled corn on the basis of 15.5 percent moisture in the grain.

Each entry is ranked in the various tables on the basis of a performance score. In computing the performance score, yield was expressed as percentage of the average of all entries, while dry matter content of the grain, lodging resistance, and ears on the stalks were expressed as an adjusted percentage of the average of all entries. The adjusted percentage was obtained by multiplying the deviation from 100 percent by one and one-half. In the final performance score, yield was weighted 50 percent, dry matter content of the grain and lodging resistance, 20 percent each, and ears on the stalks 10 percent. A separate performance score was calculated for each district, section and period of years table. In the 2 and 3-year period of years table the average percentage of damaged corn does not include data for 1945, and in the 4-year table for both 1942 and 1945.

ABNORMAL CONDITIONS

Excessive rainfall following planting at the District 2 field resulted in severe damage to the stand. This test field was abandoned at that time. The corn at the District 3 field was killed by frost before it had reached the dent stage and this field was not harvested. Continued rainfall which extended late into June prevented planting the field in District 11. At two other locations, Districts 4 and 9, excess rainfall resulted in a slight amount of damage.

PERIOD OF YEARS' RESULTS

The average performance by sections of all entries tested in 1945 that also were tested in the same sections in 1, 2, or 3 previous years is shown in tables 5 to 8, inclusive. A hybrid was included in the "period of years" table only when it was the same identical variety and entered consecutively by the same entrant. A performance score was calculated for each entry on the basis of its average performance over the period covered by each table. The various entries are ranked on the basis of their performance score. Identical entries tested for a period of more than 4 years are relatively few in number, and data beyond this period are not reported.

Results over a period of years are more reliable than records for only 1 year in evaluating a particular hybrid. However, since there are only a few identical entries which have been tested beyond a period of 2 years, it should not be inferred that a hybrid which appears in one of the period of years tables is superior to one that is not included.

PEDIGREES

The pedigrees of the experiment station and U. S. hybrids included in the 1945 tests are as follows:

- Illinois Hybrid 201 — (WF9 x 38-11) x (187-2 x L317)
- Illinois Hybrid 751 — (WF9 x Hy) x (A x 90)
- Indiana Hybrid 210B — (WF9 x I234) x (H5 x M14)
- Indiana Hybrid 416B — (WF9 x Hy) x (M14 x 90)
- Indiana Hybrid 432 — (WF9 x R4) x (L289 x I234)
- Indiana Hybrid 608C — (WF9 x Hy) x (A x Tr)
- Iowa Hybrid 303 — (L289 x I205) x (WF9 x R4)
- Iowa Hybrid 306 — (L289 x I205) x (WF9 x Os420)
- Iowa Hybrid 931 — (Os420 x Os426) x (L289 x C1447)

- Iowa Hybrid 939 — (L289 x I205) x (Os420 x Os426)
 Iowa Hybrid 942 — (Os420 x Os426) x (L289 x I234)
 Iowa Hybrid 3553 — (WF9 x R4) x (I205 x I234)
 Iowa Hybrid 4020 — (WF9 x 38-11) x (I224 x I159)
 Iowa Hybrid 4059 — (WF9 x Hy) x (L289 x I205)
 Iowa Hybrid 4060 — (WF9 x 38-11) x (L289 x I205)
 Iowa Hybrid 4249 — (M14 x 187-2) x (WF9 x Os420)
 Iowa Hybrid 4295 — (L289 x I205) x (M14 x Os420)
 Iowa Hybrid 4297 — (M14 x 187-2) x (WF9 x I205)
 Iowa Hybrid 4298 — (WF9 x M14) x (Os420 x 187-2)
 Iowa Hybrid 4308 — (WF9 x M14) x (Y63 x Minn 8-29)
 Iowa Hybrid 4316 — (WF9 x M14) x (L289 x I205)
 Iowa Hybrid 4320 — (WF9 x Hy) x (38-11 x L317)
 Iowa Hybrid 4334 — (M14 x Oh28) x (Y31 x Oh51A)
 Iowa Hybrid 4345 — (M14 x Hy) x (WF9 x I205)
 Iowa Hybrid 4354 — (WF9 x I205) x (M1984 x M14)
 Iowa Hybrid 4383 — (WF9 x Hy) x (38-11 x Oh07)
 Iowa Hybrid 4385 — (WF9 x 38-11) x (187-2 x Oh07)
 Iowa Hybrid 4390 — (CC28 x Oh28) x (Y31 x Oh51A)
 Iowa Hybrid 4397 — (M14 x CC28) x (WF9 x I205)
 Iowa Hybrid 4410 — (WF9 x 38-11) x (Hy x I205)
 Iowa Hybrid 4411 — (WF9 x Hy) x (M14 x I205)
 Iowa Hybrid 4416 — (Hy x K155) x (38-11 x B1)
 Iowa Hybrid 4417 — (WF9 x M14) x (Y63 x I153)
 Iowa Hybrid 4423 — (WF9 x 38-11) x (L317 x B2)
 Iowa Hybrid 4425 — (WF9 x CC28) x (Os420 x Hy)
 Iowa Hybrid 4435 — (WF9 x 38-11) x (R4 x B2)
 Iowa Hybrid 4441 — (M14 x Oh28) x (Y63 x Oh51A)
 Iowa Hybrid 4442 — (CC28 x Oh28) x (Y63 x Oh51A)
 Ohio Hybrid C92 — (WF9 x 38-11) x (Hy x Oh07)
 U. S. Hybrid 13 — (WF9 x 38-11) x (Hy x L317)
 U. S. Hybrid 35 — (WF9 x 38-11) x (Hy x R4)
 Wisconsin Hybrid 645 — (WF9 x CC1) x (CC7 x CC5)

RESULTS FOR 1945

The average stand for the fields harvested in 1945 was rather high. However, even with good stands the yields tended to be somewhat lower than those of the past several years. In all probability the general lack of maturity was at least partly responsible for the decreased yield.

The average moisture content in this year's test was considerably higher than those of the past 9 years, with the exception of 1943. In that year the average date of harvesting was several weeks earlier than this year. In addition, the 1943 average moisture includes the results from District 3, a field in which the moisture

content has always been high, while in 1945 this field was not harvested and the results, therefore, are not included in the average. The lack of a greater spread between the average moisture content in 1944 and 1945 also may be accounted for in part by the absence of the District 3 results in this year's average. The average percentage of lodging and also of dropped ears was considerably greater than that for the past 3 years. A summary of the results for the period 1935 to 1945, inclusive, is given in table 3.

TABLE 3. SUMMARY OF RESULTS FOR ELEVEN-YEAR PERIOD
1935 to 1945, INCLUSIVE.

Year	Average yield bu.	Average stand pct.	Average moist. pct.	Average lodging pct.	Average drop. ears pct.	Average damaged corn pct.
1935	66.08	78.3	24.1	15.9	1.4	5.3
1936	38.02	77.8	19.5	22.0	2.6	1.8
1937	72.63	84.8	21.0	18.7	0.8	1.2
1938	73.03	80.7	16.7	14.5	1.2	3.6
1939	78.21	84.1	15.1	16.4	3.1	2.6
1940	71.99	85.2	19.4	6.9	0.6	4.1
1941	68.31	87.2	20.7	34.9	1.0	3.6
1942	82.13	82.4	21.9	8.2	0.2	....
1943	83.13	78.9	24.7	9.1	0.2	1.0
1944	76.63	84.9	21.6	4.7	0.3	1.3
1945	71.76	86.8	24.9	28.3	0.8	....
Average	71.08	82.8	20.8	16.3	1.1	2.7

A wide range in yield occurred among the district fields. In general, low yield was associated with immaturity. The degree and nature of the lodging between fields seemed to be influenced considerably by the time and nature of local storms. Strong winds early in the season resulted in a high percentage of the plants being broken off at the ground level at the District 10 location. The high degree of breakage at this field unquestionably affected the yield of those varieties most subject to stalk breakage at that time. Winds later in the season uprooted a high percentage of the plants at the District 12 field. Stalk breakage late in the season, which was evident at both Districts 6 and 9, may have resulted quite largely from the effects of attack by corn borers. However, it is not inferred that varieties with a low degree of stalk breakage at these locations are resistant to the corn borer. Ear droppage did not seem to be associated entirely with maturity nor was it confined to any particular area. A summary of the 1945 data by districts is shown in table 4.

TABLE 4. SUMMARY OF THE 1945 FIELD RESULTS.

SUMMARY OF THE 1940 FIELD RESULTS.						
District	Average yield bu.	Average stand pct.	Average moist. pct.	Average lodging pct. root stalk	Average drop ears pct.	
1	55.93	88.1	28.3	1.0	3.5	1.2
2	....	....	....	....	....	....
3	....	....	....	....	....	....
4	45.09	82.8	30.3	8.5	0.4	0.1
5	51.45	94.3	23.2	44.7	5.7	0.7
6	94.23	89.1	22.7	13.5	10.3	2.0
7	81.63	80.5	22.3	10.3	3.4	0.8
8	86.74	81.8	19.2	5.5	2.1	0.5
9	55.93	85.2	29.2	7.3	19.6	1.0
10	92.12	90.9	20.1	19.4	25.5	0.5
11	....	....	....	....	....	....
12	82.70	88.4	19.7	43.7	29.9	0.3
Average	71.76	86.8	23.9	17.1	11.2	0.8

The data for entries in both the regular and the experimental classes are presented in tables 9 to 20, inclusive. Entries in both the regular and the experimental classes were handled in the same manner during the testing procedure. The results, therefore, should be directly comparable. It should be emphasized that the data are the results for 1 year only and conditions under which the corn was grown may have had a marked influence upon the performance. Records on a section basis, shown in tables 9 to 11, represent the average of a greater number of replications, with more varied growing conditions, than those for only one district and, therefore, should be more reliable. Since only one district field was harvested in the Northern section the table would be the same as that for District 1. To prevent duplication the section table for the Northern section has been omitted from the bulletin.

YIELD TEST RECORD ESSENTIAL FOR CERTIFICATION

Hybrids differ greatly in their agronomic value, some are very good while others are average and some poor. The Iowa Corn Yield Test provides a means for determining which are the better hybrids. Only those hybrid combinations that have been entered in the Iowa Corn Yield Test over a period of years under a definite pedigree known to the certifying agency are eligible for certification. To be acceptable, their record in the yield test must have met a definite standard of satisfactory performance and adaptation.

TABLE 5. NORTHERN SECTION

Average records of Section Entries in the 1945 Iowa Corn Yield Test and Identical Previous Years. An entry was included only when entered by the same individual, under the same identification name or number, and with the same pedigree.

Variety	Name and Address of Entrant	Performance score	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root stalk	Ear ht.	Dropped ears pct.	Damaged corn pct.*
4-YEAR AVERAGE—1942, 1943, 1944, 1945									
Schmitz No. 410.....	Albert M. Schmitz, Remsen.....	104.74	69.37	84.5	28.6	2.5	1.4	2.7	0.1
G-29.....	Funk Bros. Seed Co., Bloomington, Ill.....	103.58	68.56	83.1	31.9	0.7	0.4	2.5	0.3
Mellowdent No. 90.....	Louis Quirin, Alta.....	103.37	67.92	84.4	28.8	3.5	0.9	2.7	0.1
461.....	Wm. P. Eno, Sheffield.....	102.83	66.63	80.2	27.4	3.3	1.4	2.8	0.3
Pioneer 340.....	Pioneer Hi-Bred Corn Co., Des Moines.....	102.81	67.05	86.6	30.3	1.4	0.6	2.9	0.2
95M.....	W. O. McCurdy & Sons, Fremont.....	98.12	59.27	76.6	24.8	3.6	1.4	2.4	0.1
Wisconsin Hybrid 645.....	Iowa Agr. Exp. Assn., Ames.....	95.94	57.52	80.6	28.1	1.9	1.2	2.5	0.3
Iowa Hybrid 931.....	Iowa Agr. Exp. Assn., Ames.....	95.86	62.01	79.6	26.9	6.7	8.3	3.1	2.3
Indiana Hybrid 432.....	Iowa Agr. Exp. Assn., Ames.....	92.75	59.14	75.0	31.8	8.8	3.4	3.0	0.3
	Average of all entries.....		64.16	81.2	28.7	3.6	2.1	2.7	0.4
3-YEAR AVERAGE—1943, 1944, 1945									
Iowa Hybrid 4316.....	Roy Fanselow, Dows.....	104.64	69.98	86.6	27.6	3.0	3.2	2.8	0.3
Iowa Hybrid 4316.....	Emil J. Kruger, Bellevue.....	103.65	68.69	84.6	29.2	2.1	1.9	2.8	0.4
Schmitz No. 410.....	Albert M. Schmitz, Remsen.....	103.59	68.31	85.0	28.3	3.2	1.4	2.8	0.1
461.....	Wm. P. Eno, Sheffield.....	102.25	65.40	79.6	25.8	3.7	1.2	2.9	0.3
Mellowdent No. 90.....	Louis Quirin, Alta.....	102.13	66.94	84.8	28.7	4.4	0.9	2.8	0.1
Iowa Hybrid 4297.....	O. W. Johnson & Son, Le Grand.....	101.97	65.23	81.2	28.0	1.6	0.9	2.8	0.3
Pioneer 340.....	Pioneer Hi-Bred Corn Co., Des Moines.....	101.90	66.27	87.7	30.4	1.8	0.3	3.0	0.2
G-29.....	Funk Bros. Seed Co., Bloomington, Ill.....	101.43	66.61	82.0	32.8	0.8	0.4	2.6	0.3
100R.....	Henry Field Hybrid Corn Co., Shenandoah.....	99.81	64.39	80.1	29.6	2.8	2.2	2.9	0.5
Pioneer 340.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	99.60	64.00	85.8	31.8	1.5	0.5	3.0	0.1
95M.....	W. O. McCurdy & Sons, Fremont.....	97.43	59.09	77.1	24.8	4.6	1.5	2.6	0.1
Wisconsin Hybrid 645.....	Iowa Agr. Exp. Assn., Ames.....	95.39	57.36	83.2	28.1	2.5	1.3	2.6	0.4
Iowa Hybrid 931.....	Iowa Agr. Exp. Assn., Ames.....	94.42	61.29	80.1	26.5	8.1	9.2	3.1	3.0
Indiana Hybrid 432.....	Iowa Agr. Exp. Assn., Ames.....	91.76	58.49	75.2	31.1	10.3	3.7	3.0	0.4
	Average of all entries.....		64.43	82.4	28.8	3.6	2.0	2.8	0.5

Variety	Name and Address of Entrant	Performance score	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root	Lodging pct. stalk	Ear ht.	Dropped ears pct.	Damaged corn pct.*
2-YEAR AVERAGE—1944, 1945										
Iowa Hybrid 4334.....	Farm Crops & U.S.D.A., Ames.....	110.59	69.26	88.1	22.7	1.9	0.5	2.7	0.8	1.7
Iowa Hybrid 4390.....	Farm Crops & U.S.D.A., Ames.....	110.05	68.20	87.1	21.8	1.3	1.5	2.7	0.2	0.4
De Kalb 240.....	Iowa Corn & Small Grain Growers' Assn., Ames	108.04	66.44	90.1	23.0	1.9	1.0	2.9	0.3	1.1
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames	103.76	61.66	80.3	24.4	0.8	1.0	2.9	0.7	0.4
De Kalb 410.....	Iowa Corn & Small Grain Growers' Assn., Ames	103.40	63.38	86.3	27.0	3.3	1.0	2.8	0.2	0.2
Pioneer 353A.....	Iowa Corn & Small Grain Growers' Assn., Ames	103.38	61.14	86.0	22.9	0.8	2.7	2.9	1.0	0.3
461.....	Wm. P. Eno, Sheffield.....	102.84	62.27	83.2	25.4	3.6	1.5	2.9	0.5	0.1
1951.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	102.84	62.37	81.9	27.8	0.2	2.0	2.9	0.4	0.9
Iowa Hybrid 4297.....	O. W. Johnson & Son, LeGrand.....	102.76	62.30	86.0	27.5	2.0	0.7	2.9	0.4	0.4
Iowa Hybrid 4316.....	Emil J. Kruger, Bellevue.....	102.04	62.87	84.6	30.4	1.2	1.3	2.9	0.7	0.7
Iowa Hybrid 4316.....	Malcolm H. Grieve, Pierson.....	101.88	62.19	82.6	28.4	1.9	1.5	2.7	1.6	0.7
Iowa Hybrid 4316.....	Roy Fanselow, Dows.....	101.72	62.50	86.6	28.3	1.7	3.8	2.8	0.3	1.9
Iowa Hybrid 4316.....	Donald D. Usher, Ottosen.....	101.69	62.63	84.7	27.6	4.3	2.5	2.8	0.5	1.8
Schmitz No. 410.....	Albert M. Schmitz, Remsen.....	100.96	60.83	84.7	28.4	1.8	1.6	2.8	0.2	0.4
Iowa Hybrid 4308.....	Farm Crops & U.S.D.A., Ames.....	100.88	57.81	85.6	23.1	1.4	1.1	2.5	0.7	1.0
Mellowdent No. 90.....	Louis Quirin, Alta.....	100.41	60.81	84.9	29.7	2.6	0.8	2.9	0.2	0.4
Iowa Hybrid 4316.....	J. H. Isenhardt, Batavia.....	100.36	61.63	85.5	28.8	3.7	3.3	2.8	0.0	0.4
Maygold 99A.....	Earl E. May Seed Co., Shenandoah.....	100.18	60.65	82.0	29.7	1.7	1.6	2.9	1.0	0.7
100R.....	Henry Field Hybrid Corn Co., Shenandoah.....	99.74	60.29	79.3	29.4	2.3	2.0	2.8	0.7	0.4
Pioneer 340.....	Pioneer Hi-Bred Corn Co., Des Moines.....	99.39	59.62	88.9	31.3	1.1	0.2	3.1	0.3	2.8
95M.....	W. O. McCurdy & Sons, Fremont.....	99.03	56.78	82.5	24.1	2.8	1.8	2.6	0.1	0.1
Reid Nat'l Hyb. 115R.....	Reid National Corn Co., Anamosa.....	98.96	61.36	87.9	30.8	3.4	2.6	3.4	4.3	0.5
Master F 101.....	Farmer Seed & Nursery Co., Faribault, Minn....	98.52	58.77	86.5	25.5	5.9	3.4	3.0	0.8	0.2
Pioneer 340.....	Garst & Thomas Hybrid Corn Co., Coon Rapids..	98.22	58.84	87.1	32.8	0.7	0.3	3.0	0.2	0.1
Pioneer 322.....	Iowa Corn & Small Grain Growers' Assn., Ames	96.88	56.86	83.6	29.4	1.1	3.2	3.0	0.7	1.5
Indiana Hybrid 210B.....	Iowa Agr. Exp. Assn., Ames.....	96.82	56.41	81.1	26.3	3.6	4.1	2.8	0.2	0.2
G-29.....	Funk Bros. Seed Co., Bloomington, Ill.....	96.51	57.94	81.7	34.8	1.0	0.8	2.7	0.4	0.3
G-16.....	Funk Bros. Seed Co., Belle Plaine.....	94.59	57.57	86.7	37.5	2.0	1.0	2.8	0.0	1.2
Wisconsin Hybrid 645.....	Iowa Agr. Exp. Assn., Ames.....	94.39	52.94	83.9	28.9	1.0	1.6	2.7	0.5	0.9
Mellowdent 94.....	J. N. Horlacher & Son, Storm Lake.....	94.07	55.91	82.2	36.5	1.2	0.4	2.8	0.0	1.1
Iowa Hybrid 931.....	Iowa Agr. Exp. Assn., Ames.....	93.47	57.60	83.9	26.4	7.9	6.2	3.1	4.4	0.5
G-114.....	Funk Bros. Seed Co., Belle Plaine.....	92.84	52.49	84.2	32.8	0.8	0.3	2.7	0.6	1.8
Indiana Hybrid 432.....	Iowa Agr. Exp. Assn., Ames.....	87.25	49.88	72.4	33.0	7.9	3.9	3.1	0.5	0.7
Average of all entries.....			60.07	84.3	28.4	2.4	1.8	2.9	0.7	0.8

*In the 4-year average data for 1942 and 1945 not included, in the 2- and 3-year average data for 1945 not included.

TABLE 6. NORTH CENTRAL SECTION

Average records of Section Entries in the 1945 Iowa Corn Yield Test and Identical Previous Years. An entry was included only when entered by the same individual, under the same identification name or number, and with the same pedigree.

Variety	Name and Address of Entrant	Performance score	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root stalk	Ear ht.	Dropped ears pct.	Damaged corn pct.*
4-YEAR AVERAGE—1942, 1943, 1944, 1945									
ACE 395.....	Eliason Seed Sales, West Liberty.....	102.44	85.92	88.1	24.1	3.8	2.0	3.1	0.8
Iowa Hybrid 3553.....	Roy Fanselow, Dows.....	102.23	85.88	87.2	20.0	8.4	1.7	2.7	0.6
J-39.....	Jacobsen Hybrid Corn Co., Lake View.....	99.60	80.70	81.1	22.4	4.7	1.8	2.9	0.7
118M.....	W. O. McCurdy & Sons, Fremont.....	99.80	81.37	84.0	25.0	3.4	2.4	3.1	0.3
Illinois Hybrid 751.....	Iowa Agr. Exp. Assn., Ames.....	98.84	80.02	84.8	22.6	5.8	1.7	2.8	0.8
1942.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	97.60	77.70	79.6	19.6	6.9	3.4	2.9	0.8
	Average of all entries.....		81.85	84.1	22.3	5.5	2.2	2.9	0.5
3-YEAR AVERAGE—1943, 1944, 1945									
Pioneer 339.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	104.48	82.86	88.3	23.2	6.1	1.5	3.0	0.6
Pioneer 341.....	Pioneer Hi-Bred Corn Co., Des Moines.....	101.68	80.62	88.4	22.1	11.1	2.0	2.5	0.2
Mellowdent No. 94.....	Louis Quirin, Alta.....	101.66	78.54	87.9	21.5	8.3	1.5	2.7	0.1
ACE 395.....	Eliason Seed Sales, West Liberty.....	101.57	79.02	87.9	24.7	4.9	2.3	3.1	0.3
Reid Nat'l Hyb. 118R.....	Reid National Corn Co., Anamosa.....	100.17	76.73	84.0	23.5	6.2	2.1	3.0	0.4
Iowa Hybrid 3553.....	Roy Fanselow, Dows.....	100.22	77.15	85.6	20.0	11.1	1.8	2.6	0.7
Iowa Hybrid 4297.....	O. W. Johnson & Son, LeGrand.....	100.04	75.96	81.0	20.8	9.5	0.9	2.6	0.2
Farmers 439.....	Farmers Hybrid Seed Corn Co., Hampton.....	99.80	76.96	85.5	23.0	6.9	3.3	3.0	0.9
Pioneer 333.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	99.62	77.46	84.7	23.5	8.9	2.6	3.1	0.1
J-39.....	Jacobsen Hybrid Corn Co., Lake View.....	98.76	73.96	80.4	22.9	5.8	1.8	2.9	0.8
118M.....	W. O. McCurdy & Sons, Fremont.....	98.44	74.55	83.2	25.6	4.4	2.4	3.0	0.3
Illinois Hybrid 751.....	Iowa Agr. Exp. Assn., Ames.....	97.99	73.66	83.6	23.0	7.7	1.7	2.8	0.4
1942.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	95.57	69.64	78.0	19.6	9.2	3.3	2.8	1.0
	Average of all entries.....		76.70	84.5	22.6	7.7	2.1	2.9	0.5

Variety	Name and Address of Entrant	Performance score	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root stalk	Ear ht.	Dropped ears pct.	Damaged corn pct.*
2-YEAR AVERAGE—1944, 1945									
Reid Nat'l Hyb. 115A.....	Reid National Corn Co., Anamosa.....	105.28	75.44	88.8	20.5	6.4	3.1	0.4	0.1
Pioneer 339.....	Garst & Thomas Hybrid Corn Co., Coon Rapids	103.88	74.99	90.4	22.8	8.9	1.8	3.0	0.8
Mellowdent No. 90.....	J. C. Horlacher, Storm Lake.....	102.19	74.69	89.4	19.5	15.5	3.1	2.6	0.6
Iowa Hybrid 4297.....	O. W. Johnson & Son, LeGrand.....	101.99	72.83	88.7	19.9	13.9	1.3	2.5	0.3
Cornhusker 148.....	Cornhusker Hybrid Corn Co., Fremont, Nebr...	101.61	72.36	90.5	24.4	8.2	2.1	2.8	0.4
Iowealth 9AQ.....	Michael Leonard Co., Sioux City.....	101.35	73.03	90.0	22.3	8.9	5.7	3.3	0.6
Maygold 99A.....	Earl E. May Seed Co., Shenandoah.....	101.29	73.47	88.7	19.5	15.3	3.6	2.6	0.2
Pfister 4897.....	Wilson-Rininger Corn Co., Sac City.....	101.18	74.24	87.5	22.2	15.3	2.5	2.7	0.2
Reid Nat'l Hyb. 118R.....	Reid National Corn Co., Anamosa.....	101.10	71.73	89.8	23.3	9.3	2.3	3.0	0.6
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames	101.00	71.88	92.0	21.0	12.4	2.3	2.9	0.6
Iowa Hybrid 3553.....	Roy Fanselow, Dows.....	100.45	70.70	90.9	19.5	13.4	2.0	2.5	0.9
Pioneer 333.....	Garst & Thomas Hybrid Corn Co., Coon Rapids	100.42	72.36	89.7	22.6	13.2	2.6	3.1	0.1
Mellowdent No. 94.....	Louis Quirin, Alta.....	100.27	70.81	89.7	21.6	12.5	1.7	2.6	0.1
ACE 395.....	Eliason Seed Sales, West Liberty.....	99.80	69.49	90.3	25.0	6.4	2.6	3.1	0.4
Pioneer 341.....	Pioneer Hi-Bred Corn Co., Des Moines.....	99.67	71.78	89.5	22.2	14.5	2.6	2.4	0.3
Iowa Hybrid 4249.....	Eden Valley Hybrid, Vinton.....	99.47	72.67	89.0	21.1	18.2	2.5	2.6	0.3
Iowa Hybrid 306.....	Malcolm H. Grieve, Pierson.....	99.33	69.59	90.0	22.2	9.1	4.0	2.6	1.6
Pioneer 322.....	Iowa Corn & Small Grain Growers' Assn., Ames	99.33	69.16	90.2	18.3	10.9	6.2	2.9	0.2
G-16.....	Funk Bros. Seed Co., Belle Plaine.....	98.92	69.97	91.0	22.5	12.3	2.8	2.5	0.7
G-29.....	Funk Bros. Seed Co., Bloomington, Ill.....	98.92	69.38	86.2	22.8	11.9	1.7	2.3	0.7
Illinois Hybrid 751.....	Iowa Agr. Exp. Assn., Ames.....	98.92	68.14	87.7	22.5	9.3	2.2	2.7	0.5
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames	98.76	70.06	88.6	18.9	16.4	3.2	2.6	0.9
J-39.....	Jacobsen Hybrid Corn Co., Lake View.....	98.74	67.18	84.1	23.2	7.3	1.7	2.8	1.2
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames	98.63	66.47	86.4	21.6	7.3	2.5	2.7	0.8
118M.....	W. O. McCurdy & Sons, Fremont.....	98.46	67.75	87.6	25.8	5.9	2.5	3.0	0.5
Iowa Hybrid 4249.....	Iowa State Hybrid Corn Co., Elkhart.....	98.37	69.96	87.0	22.2	15.7	1.5	2.6	0.2
Farmers 439.....	Farmers Hybrid Seed Corn Co., Hampton.....	98.11	68.01	87.9	23.1	9.1	3.4	2.9	1.4
1942.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	97.75	66.43	85.0	18.9	11.7	3.2	2.6	1.5
Iowa Hybrid 939.....	Iowa Corn & Small Grain Growers' Assn., Ames	94.85	66.48	88.3	21.1	14.3	5.7	2.8	3.5
	Average of all entries.....		70.73	88.8	21.7	11.5	2.9	2.8	0.7

*In the 4-year average data for 1942 and 1945 not included, in the 2- and 3-year average data for 1945 not included.

TABLE 7. SOUTH CENTRAL SECTION

Variety	Name and Address of Entrant	Perform- ance score	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root stalk		Ear ht.	Dropped ears pct.	Damaged corn pct.*
4-YEAR AVERAGE—1942, 1943, 1944, 1945										
Pioneer 339.....	Pioneer Hi-Bred Corn Co., Des Moines.....	103.51	90.71	87.9	20.6	6.5	2.7	3.2	0.4	2.9
ACE 193.....	Eliason Seed Sales, West Liberty.....	102.71	90.23	86.9	21.9	4.5	6.3	3.6	0.7	2.4
124M.....	W. O. McCurdy & Sons, Fremont.....	102.46	89.13	86.7	20.7	5.5	5.6	3.5	0.5	1.5
Dockendorff 13.....	Wm. Dockendorff & Sons, Danville.....	102.15	90.27	87.8	22.3	5.2	6.8	3.6	0.9	0.8
117M.....	W. O. McCurdy & Sons, Fremont.....	101.58	85.24	82.5	21.7	2.1	3.9	3.3	0.2	1.5
Maygold 49.....	Earl E. May Seed Co., Shenandoah.....	100.56	85.75	85.1	21.8	5.3	4.4	3.3	0.4	2.4
Farmers 555.....	Farmers Hybrid Seed Corn Co., Hampton.....	99.97	83.47	83.7	21.1	5.0	3.4	3.2	0.2	2.2
1908.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	97.89	81.13	82.6	21.7	5.8	4.0	3.2	0.2	1.3
Farmers 509.....	Farmers Hybrid Seed Corn Co., Hampton.....	96.92	83.36	82.7	21.9	11.8	4.4	3.4	0.4	1.3
129-1.....	Henry Field Hybrid Corn Co., Shenandoah.....	96.80	80.11	82.1	21.6	7.4	4.0	3.2	0.2	0.7
Iowa Hybrid 939.....	Iowa Agr. Exp. Assn., Ames.....	94.89	82.91	82.4	19.6	16.9	6.6	3.1	1.5	1.9
	Average of all entries.....		85.67	84.6	21.4	6.9	4.7	3.3	0.5	1.7
3-YEAR AVERAGE—1943, 1944, 1945										
Pioneer 339.....	Pioneer Hi-Bred Corn Co., Des Moines.....	104.60	88.73	87.8	21.8	7.8	2.6	3.3	0.4	2.9
Pioneer 339.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	103.06	86.83	86.2	21.7	9.1	2.5	3.3	0.6	1.7
ACE 193.....	Eliason Seed Sales, West Liberty.....	102.79	88.07	87.7	23.2	5.5	7.2	3.7	0.9	2.4
124M.....	W. O. McCurdy & Sons, Fremont.....	102.27	86.51	86.8	22.4	6.7	5.9	3.5	0.5	1.5
Dockendorff 13.....	Wm. Dockendorff & Sons, Danville.....	102.02	87.35	88.1	23.6	5.5	7.7	3.7	1.0	0.8
117M.....	W. O. McCurdy & Sons, Fremont.....	101.33	82.19	82.4	23.2	2.5	4.5	3.3	0.3	1.5
Maygold 49.....	Earl E. May Seed Co., Shenandoah.....	100.97	83.74	85.5	23.4	6.1	4.3	3.3	0.5	2.4
Farmers 555.....	Farmers Hybrid Seed Corn Co., Hampton.....	99.88	80.97	84.5	22.5	6.4	3.5	3.3	0.2	2.2
Farmers 509.....	Farmers Hybrid Seed Corn Co., Hampton.....	97.30	82.04	83.6	23.2	13.4	4.9	3.5	0.5	1.3
1904.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	97.06	78.94	81.6	22.9	9.7	4.2	3.3	0.6	0.9
1908.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	96.92	77.73	81.9	23.6	7.0	4.6	3.3	0.2	1.3
129-1.....	Henry Field Hybrid Corn Co., Shenandoah.....	96.58	77.60	81.8	22.9	8.8	4.3	3.2	0.3	0.7
Iowa Hybrid 939.....	Iowa Agr. Exp. Assn., Ames.....	95.19	81.89	83.9	20.6	20.0	6.5	3.2	1.8	1.9
	Average of all entries.....		83.28	84.8	22.7	8.3	4.8	3.4	0.6	1.7

Variety	Name and Address of Entrant	Performance score	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root stalk	Ear ht.	Dropped ears pct.	Damaged corn pct.*
2-YEAR AVERAGE—1944, 1945									
Ohio C92.....	J. H. Isenhardt, Batavia.....	104.59	87.46	89.5	21.0	5.1	4.0	3.2	0.0
G-37.....	Funk Bros. Seed Co., Belle Plaine.....	102.54	81.50	82.1	19.7	1.7	3.9	3.2	0.6
Pioneer 339.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	102.47	84.56	86.1	21.0	7.4	2.5	3.1	0.5
W-205.....	Wilson's Hybrids, Harlan.....	102.37	85.79	87.4	21.5	7.3	4.5	3.1	0.6
Pioneer 339.....	Pioneer Hi-Bred Corn Co., Des Moines.....	102.23	85.05	86.7	21.4	7.9	3.1	3.1	0.6
218-H.....	Roland Holden, Williamsburg.....	101.73	82.76	82.8	22.5	3.3	3.9	3.1	0.4
Pfister 1897.....	Orcutt Hybrid Corn Co., Monroe.....	101.61	85.46	87.6	20.9	10.7	3.6	3.1	0.2
117M.....	W. O. McCurdy & Sons, Fremont.....	101.33	81.69	84.0	21.9	1.7	5.4	3.2	0.5
ACE 193.....	Eliason Seed Sales, West Liberty.....	101.29	85.25	87.7	21.9	4.5	8.8	3.5	1.2
H-99.....	McKinney Bros. & Miller, Woodbine.....	101.14	85.23	85.1	22.8	3.5	9.2	3.4	1.2
Cornhusker 148.....	Cornhusker Hybrid Co., Fremont, Nebr.....	101.11	83.03	87.9	22.5	4.5	5.0	3.1	0.4
Pioneer 336.....	Garst & Thomas Hybrid Corn Co., Coon Rapids..	101.08	86.23	88.8	21.8	9.8	6.3	3.2	0.5
124M.....	W. O. McCurdy & Sons, Fremont.....	100.49	83.59	88.1	21.0	7.1	6.8	3.3	0.7
1904.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	100.33	80.33	84.9	21.5	3.6	4.3	3.1	0.8
Pioneer 336.....	Pioneer Hi-Bred Corn Co., Des Moines.....	100.33	83.40	89.5	22.5	8.9	3.7	3.2	0.1
G-169.....	Funk Bros. Seed Co., Belle Plaine.....	100.27	81.17	83.1	21.0	5.3	4.9	3.4	0.7
Maygold 49.....	Earl E. May Seed Co., Shenandoah.....	100.04	81.90	87.0	22.5	5.8	4.7	3.2	0.7
987M.....	W. O. McCurdy & Sons, Fremont.....	99.94	79.39	83.0	21.8	4.2	3.1	3.1	0.2
Dockendorff 13.....	Wm. Dockendorff & Sons, Danville.....	99.91	84.09	88.2	22.5	5.7	8.8	3.4	1.4
Fed. 169.....	A. G. Thurman, Cedar Rapids.....	99.79	79.66	83.8	21.1	4.6	4.2	3.2	0.7
G-94.....	Funk Bros. Seed Co., Belle Plaine.....	99.76	82.94	85.6	22.9	4.4	8.6	3.2	0.1
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames	99.14	78.05	83.0	20.0	6.4	2.6	3.0	0.8
Farmers 555.....	Farmers Hybrid Seed Corn Co., Hampton.....	99.04	78.91	84.2	21.7	5.3	3.9	3.2	0.2
U. S. Hybrid 13.....	W. F. Kilpatrick & Son, Harlan.....	98.77	80.28	83.1	23.4	3.9	6.4	3.3	0.7
129-1.....	Henry Field Hybrid Corn Co., Shenandoah.....	98.27	78.86	83.8	21.9	6.0	5.1	3.1	0.3
Pfister 280.....	Iowa Corn & Small Grain Growers' Assn., Ames	98.26	80.26	85.3	21.3	10.1	4.2	3.1	0.4
Cornhusker 50.....	Cornhusker Hybrid Co., Fremont, Nebr.....	98.12	78.71	84.1	24.1	4.6	4.3	3.4	0.1
Farmers 509.....	Farmers Hybrid Seed Corn Co., Hampton.....	96.59	79.32	82.7	22.7	11.3	4.5	3.4	0.7
1908.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	96.35	76.17	81.7	22.9	5.3	5.5	3.1	0.3
DeKalb 639.....	Iowa Corn & Small Grain Growers' Assn., Ames	96.32	78.05	83.1	22.6	7.5	7.0	2.9	0.5
Iowa Hybrid 939.....	Iowa Agr. Exp. Assn., Ames.....	94.81	81.65	85.5	20.3	21.2	6.1	3.1	2.2
	Average of all entries.....		81.96	85.3	21.8	6.4	5.1	3.2	0.6

*In the 4-year average data for 1942 and 1945 not included, in the 2- and 3-year average data for 1945 not included.

TABLE 8. SOUTHERN SECTION

Average records of Section Entries in the 1945 Iowa Corn Yield Test and Identical Previous Years. An entry was included only when entered by the same individual, under the same identification name or number, and with the same pedigree.

Variety	Name and Address of Entrant	Performance score	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root stalk	Ear ht.	Dropped ears pct.	Damaged corn pct.*	
4-YEAR AVERAGE—1942, 1943, 1944, 1945										
124M.....	W. O. McCurdy & Sons, Fremont.....	101.56	83.56	85.1	18.0	12.1	12.8	3.3	0.5	0.8
Dockendorff 13.....	Wm. Dockendorff & Sons, Danville.....	101.26	85.64	89.1	19.2	10.1	17.5	3.4	0.8	3.4
ACE 193.....	Eliason Seed Sales, West Liberty.....	100.88	84.74	86.3	19.5	12.4	14.5	3.4	0.8	1.7
Pioneer 336.....	Pioneer Hi-Bred Corn Co., Des Moines.....	100.00	82.27	86.6	18.6	13.6	12.8	3.2	0.2	2.6
123M.....	W. O. McCurdy & Sons, Fremont.....	99.54	81.72	83.0	19.1	12.6	13.5	3.4	0.6	0.4
Meyer Hybrid No. 541.....	Clarence Meyer, Winterset.....	99.21	79.75	86.5	19.3	14.4	8.9	3.0	0.6	2.3
Maygold 39.....	Earl E. May Seed Co., Shenandoah.....	98.96	80.06	83.7	19.5	10.2	14.5	3.4	0.5	1.9
135R.....	Henry Field Hybrid Corn Co., Shenandoah.....	98.58	79.28	81.7	19.3	11.5	13.0	3.4	0.9	0.6
	Average of all entries.....		82.13	85.3	19.1	12.1	13.4	3.3	0.6	1.7
3-YEAR AVERAGE—1943, 1944, 1945										
124M.....	W. O. McCurdy & Sons, Fremont.....	101.28	84.86	84.8	19.0	14.3	14.8	3.4	0.4	0.8
Dockendorff 13.....	Wm. Dockendorff & Sons, Danville.....	101.20	87.51	89.2	20.4	11.3	20.4	3.4	0.6	3.4
Pioneer 336.....	Pioneer Hi-Bred Corn Co., Des Moines.....	101.01	84.50	87.0	19.8	13.2	15.4	3.2	0.2	2.6
ACE 193.....	Eliason Seed Sales, West Liberty.....	100.42	86.22	86.4	20.6	14.8	16.7	3.5	0.7	1.7
Meyer Hybrid No. 541.....	Clarence Meyer, Winterset.....	99.84	81.92	87.1	20.8	16.5	10.2	3.1	0.5	2.3
123M.....	W. O. McCurdy & Sons, Fremont.....	99.04	81.83	81.2	20.2	13.9	15.1	3.5	0.5	0.4
Maygold 39.....	Earl E. May Seed Co., Shenandoah.....	98.64	81.14	84.0	20.6	11.4	17.2	3.4	0.5	1.9
135R.....	Henry Field Hybrid Corn Co., Shenandoah.....	98.54	80.43	81.5	20.4	13.3	14.6	3.4	0.8	0.6
	Average of all entries.....		83.55	85.2	20.2	13.6	15.6	3.4	0.5	1.7

Variety	Name and Address of Entrant	Perform- ance score	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root stalk	Ear ht.	Dropped ears pct.	Damaged corn pct.*
2-YEAR AVERAGE—1944, 1945									
ACE 43.....	Eliason Seed Sales, West Liberty.....	107.10	83.28	83.7	18.8	11.0	10.9	3.2	0.0
218-H.....	Roland Holden, Williamsburg.....	106.41	84.24	84.6	19.1	12.2	12.3	3.3	0.1
Ohio Hybrid C92.....	Iowa-Missouri Hybrid Corn Co., Keosauqua.....	105.08	85.74	89.4	19.0	16.3	13.1	3.3	0.6
U. S. Hybrid 13.....	Iowa Corn & Small Grain Growers' Assn., Ames	103.96	88.45	87.8	20.4	17.3	17.1	3.6	0.5
Ohio Hybrid C92.....	J. H. Isenhardt, Batavia.....	102.93	84.06	89.4	18.7	21.7	10.5	3.4	0.3
Fed. 169.....	A. G. Thurman, Cedar Rapids.....	102.33	81.05	83.3	19.0	16.4	12.7	3.5	0.6
Ohio Hybrid C92.....	H. H. McAllister & Son, Mt. Union.....	101.54	82.76	88.6	19.0	21.1	12.2	3.2	0.2
U. S. Hybrid 35.....	Iowa Corn & Small Grain Growers' Assn., Ames	101.40	83.03	87.9	19.3	16.5	17.2	3.3	0.2
Funk G-94.....	Iowa Corn & Small Grain Growers' Assn., Ames	101.04	83.13	85.5	20.5	15.2	18.4	3.4	0.3
124M.....	W. O. McCurdy & Sons, Fremont.....	100.95	83.31	84.5	18.9	18.8	16.5	3.4	0.5
Pfister 164.....	Walden Farm, Keota.....	100.67	81.01	84.0	19.3	18.9	13.7	3.2	0.2
987M.....	W. O. McCurdy & Sons, Fremont.....	100.39	82.22	85.5	19.1	20.1	14.9	3.4	0.2
1904A.....	McNeilly Hybrid Corn Co., Maquoketa.....	100.29	81.65	86.1	19.8	14.1	19.5	3.5	1.0
Pioneer 336.....	Pioneer Hi-Bred Corn Co., Des Moines.....	100.19	83.20	86.6	19.5	17.3	19.2	3.3	0.0
Pioneer 336.....	Garst & Thomas Hybrid Corn Co., Coon Rapids..	100.13	84.25	86.4	19.5	18.0	19.9	3.3	0.5
Reid Nat'l Hyb. 127.....	Reid National Corn Co., Anamosa.....	99.98	80.67	86.4	19.8	23.1	9.9	3.5	0.9
Dockendorff 13.....	Wm. Dockendorff & Sons, Danville.....	99.86	84.63	89.4	20.5	13.3	24.9	3.6	0.4
Pioneer 317.....	Garst & Thomas Hybrid Corn Co., Coon Rapids..	99.85	78.39	81.2	18.8	22.2	8.9	3.2	0.7
Cornhusker 50.....	Cornhusker Hybrid Co., Fremont, Nebr.....	99.72	78.01	84.3	21.7	16.3	12.4	3.6	0.0
123M.....	W. O. McCurdy & Sons, Fremont.....	98.96	81.94	83.8	19.8	18.3	18.8	3.5	0.5
DeKalb 827.....	Iowa Corn & Small Grain Growers' Assn., Ames	98.78	79.12	85.1	19.1	16.1	18.2	3.3	0.3
4221.....	J. H. Isenhardt, Batavia.....	98.65	79.06	90.2	21.1	17.0	15.6	3.2	1.1
Meyer Hybrid No. 541.....	Clarence Meyer, Winterset.....	98.60	78.93	87.3	20.4	19.8	13.5	3.2	0.6
ACE 193.....	Eliason Seed Sales, West Liberty.....	98.58	83.33	87.5	20.5	18.5	20.7	3.6	0.6
Pioneer 332.....	Garst & Thomas Hybrid Corn Co., Coon Rapids..	97.91	80.38	88.9	23.7	17.1	17.1	3.7	0.1
Maygold 39.....	Earl E. May Seed Co., Shenandoah.....	97.08	79.03	85.4	20.6	14.9	21.7	3.5	0.6
135R.....	Henry Field Hybrid Corn Co., Shenandoah.....	96.93	78.22	82.6	20.4	16.4	19.5	3.5	0.9
Pioneer 300.....	Iowa Corn & Small Grain Growers' Assn., Ames	96.87	81.28	87.6	20.9	26.4	13.5	3.2	0.5
G-80.....	Funk Bros. Seed Co., Belle Plaine.....	95.40	79.00	84.4	21.9	22.2	17.1	3.6	0.3
1904.....	McNeilly Hybrid Corn Co., Maquoketa.....	95.20	74.64	85.3	19.6	18.4	17.3	3.1	0.4
Cornhusker 30.....	Cornhusker Hybrid Co., Fremont, Nebr.....	93.20	75.25	79.9	22.3	24.0	14.8	3.5	0.1
	Average of all entries.....		81.40	85.9	20.0	18.0	15.9	3.4	0.4

*In the 4-year average data for 1942 and 1945 not included, in the 2- and 3-year average data for 1945 not included.

TABLE 9. AVERAGE PERFORMANCE, REGULAR AND EXPERIMENTAL CLASS: ALL DISTRICTS OF THE NORTH CENTRAL SECTION IN 1945.

Variety, name and address of entrant, and bushels produced in 1944					Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct. root stalk		Ear ht.	Dropped ears pct.
*Iowa Hybrid 4397.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*110.54	73.44	89.3	20.8	24.3	2.8	2.6	0.1		
*Reid Nat'l Hyb. 115A.....	Reid National Corn Co., Anamosa.....	Exp.	*108.73	68.50	91.7	23.1	12.5	7.2	3.3	0.8		
*Iowa Hybrid 4345.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*107.47	67.47	81.9	22.3	19.0	2.6	2.6	0.7		
*Iowa Hybrid 4411.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*106.56	66.86	86.8	21.4	22.2	1.2	2.5	0.9		
Iowa Hybrid 306.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	104.77	65.16	87.9	24.1	15.2	6.1	2.8	2.6		
Beeghly 150.....	Milford Beeghly, Pierson.....	2500	104.37	63.93	85.0	22.6	18.1	4.1	2.4	0.2		
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	103.99	62.65	90.7	23.9	14.4	4.7	2.9	1.3		
Cornelius C59.....	Chas. J. Cornelius, Bellevue.....	150	103.61	66.99	89.9	23.5	24.4	4.1	2.6	1.1		
*Hamann Hybrid H45.....	Herman Hamann, Anthon.....	Exp.	*103.44	66.29	89.9	21.1	27.2	3.1	2.6	0.1		
Iowa Hybrid 4316.....	John Sand, Marcus.....	800	103.35	66.87	89.8	21.1	25.6	5.8	2.6	0.7		
Pioneer 339.....	Garst & Thomas Hybrid Corn Co., Coon Rapids..	21500	103.11	64.69	91.2	27.8	17.8	3.5	3.1	1.4		
*Iowa Hybrid 4425.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*102.81	65.44	86.6	28.0	17.9	5.3	2.9	1.3		
Pride D66.....	Twin City Seed Co., Minneapolis, Minn.....	12000	102.76	64.81	88.1	25.3	22.2	2.5	2.8	1.3		
432A.....	Emil J. Kruger, Bellevue.....	55	102.55	68.63	92.5	20.0	29.8	8.4	2.6	0.7		
*C-9 Carlson.....	Carlson Hybrid Corn Co., Audubon.....	Exp.	*102.48	69.25	93.5	27.0	15.5	16.7	3.2	0.8		
Iowa Hybrid 4297.....	O. W. Johnson & Son, LeGrand.....	2200	102.41	65.20	87.8	21.7	27.6	2.3	2.6	0.5		
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	102.33	65.19	92.7	23.9	24.3	3.7	3.1	0.7		
Mellowdent No. 90.....	J. N. Horlacher & Son, Storm Lake.....	1000	102.32	68.01	89.8	21.0	30.1	5.9	2.8	0.8		
*Mullins J50.....	Mullins Hybrid Corn Co., Britt.....	Exp.	*102.30	71.09	95.0	27.0	20.5	15.7	2.7	0.5		
Iowa Hybrid 4059.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	102.23	62.93	86.8	25.7	17.8	4.1	3.1	1.8		
Gurney Golden 112.....	Gurney Seed & Nursery Co., Yankton, S. D.....	4000	102.18	65.78	86.3	21.8	27.4	4.1	2.6	0.6		
Mellowdent No. 94.....	Louis Quirin, Alta.....	687	102.16	65.43	89.7	25.2	24.6	3.2	2.8	0.2		
Maygold 99A.....	Earl E. May Seed Co., Shenandoah.....	15000	102.13	66.11	87.3	21.3	26.5	6.3	2.7	0.3		
Turner S57.....	Turner Hybrid Seed Corn Co., Grand Junction..	1094	101.98	61.83	89.4	31.9	10.0	3.9	3.3	0.7		
*Feldcorn 43-8.....	Feldcorn Co., Breda.....	Exp.	*101.72	62.47	87.2	19.1	22.4	6.2	3.2	1.7		
*4488 x 4489.....	Genetics Section, Ames.....	Exp.	*101.65	62.28	91.3	33.0	8.9	6.3	3.2	1.5		
McAllister Hybrid 9.....	H. H. McAllister & Son, Mt. Union.....	350	101.46	63.61	90.1	25.8	22.4	2.9	2.9	0.7		
Iowa Hybrid 306.....	Malcolm H. Grieve, Pierson.....	500	101.44	63.72	91.3	25.5	17.6	7.6	2.8	2.3		
J-39.....	Jacobsen Hybrid Corn Co., Lake View.....	***	101.31	59.89	81.6	26.8	14.2	3.1	3.1	1.9		
*C257.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*101.20	64.13	91.9	23.5	21.0	7.9	3.2	1.4		
Farmers 439.....	Farmers Hybrid Seed Corn Co., Hampton.....	3590	101.14	62.63	90.1	26.1	17.1	6.4	3.1	2.1		
*Iowhealth LAQ.....	Michael Leonard Co., Sioux City.....	Exp.	*101.06	62.02	90.9	31.1	12.1	6.0	3.1	1.0		
Pioneer 322.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	100.93	64.01	90.4	20.1	21.1	11.8	3.0	0.2		
Iowa Hybrid 4295.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.74	67.53	88.1	23.2	26.5	10.3	2.7	0.6		
*GOLDLINE 333.....	Bruns Seed Company, Davenport.....	Exp.	*100.71	64.34	86.3	23.1	27.7	3.3	2.3	0.6		
Indiana Hybrid 416B.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.63	64.85	91.7	24.9	26.6	3.8	2.6	0.7		
*W-215.....	Wilson Hybrids, Harlan.....	Exp.	*100.57	67.21	87.2	23.7	30.5	5.8	2.8	0.1		
Pioneer 333.....	Garst & Thomas Hybrid Corn Co., Coon Rapids..	7500	100.38	65.59	91.3	26.6	26.1	4.9	3.2	0.2		
Iowa Hybrid 4298.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.33	67.59	85.7	24.2	29.1	7.7	2.8	1.2		
1942.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	4000	100.27	62.18	86.6	21.5	23.0	5.9	2.8	2.6		

G-29.....	Funk Bros. Seed Co., Bloomington, Ill.....	35000	100.24	62.57	86.6	26.3	22.7	3.0	2.4	1.0
*C246.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*100.22	63.62	90.0	23.5	22.6	7.9	3.2	0.4
*Tomahawk 66.....	Thompson Hybrid Corn Co., Belmond.....	Exp.	*100.15	64.97	88.7	29.0	21.3	6.5	3.0	1.0
H-82.....	McKinney Bros. & Miller, Woodbine.....	3600	100.14	59.70	80.8	25.3	16.2	4.9	2.6	2.2
Cornhusker 148.....	Cornhusker Hybrid Co., Fremont, Nebr.....	12660	100.11	60.97	92.6	29.6	16.3	3.7	2.9	0.6
Iowa Hybrid 4249.....	Elmer Narland, Radcliffe.....	170	100.11	63.70	85.6	24.5	25.8	4.1	2.7	0.8
Pioneer 341.....	Pioneer Hi-Bred Corn Co., Des Moines.....	33670	100.09	66.01	90.2	25.7	28.1	5.1	2.5	0.2
T-50.....	Glenn Thurston, Garwin.....	80	99.96	63.44	92.2	27.6	23.2	3.6	2.6	0.7
*Allee Hyb. 255-A-A.....	Geo. M. Allee, Newell.....	Exp.	* 99.72	69.15	93.3	20.4	35.6	9.2	2.6	0.7
Reid Nat'l Hyb. 118R.....	Reid National Corn Co., Anamosa.....	9000	99.69	60.44	90.7	28.2	17.0	4.1	3.1	1.1
Illinois Hybrid 751.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	99.65	60.24	88.3	26.6	18.6	4.0	2.7	0.7
Pfister 390.....	Mummert Seed Co., Astoria, Ill.....	500	99.60	62.19	89.7	27.6	17.2	8.1	3.2	0.8
100R.....	Henry Field Hybrid Corn Co., Shenandoah.....	2000	99.58	64.25	84.4	21.4	28.7	6.4	2.6	0.8
Iowa Hybrid 3553.....	Roy Fanselow, Dows.....	630	99.40	61.83	90.3	22.3	26.0	3.9	2.7	1.6
G-16.....	Funk Bros. Seed Co., Belle Plaine.....	10000	99.17	63.15	91.9	26.3	24.1	5.1	2.5	1.1
Iowa Hybrid 303.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	98.94	59.91	86.9	25.8	17.4	6.6	2.7	1.8
Fed. 222.....	A. G. Thurman, Cedar Rapids.....	2200	98.82	66.93	87.2	21.1	33.9	8.2	2.8	1.0
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	98.70	64.97	89.8	21.1	32.6	6.0	2.8	1.4
Pfister 4897.....	Wilson-Rininger Corn Co., Sac City.....	3000	98.38	64.71	88.6	27.1	28.9	4.7	2.8	0.3
ACE 395.....	Eliason Seed Sales, West Liberty.....	1500	97.60	56.81	90.4	31.1	12.5	4.2	3.2	0.7
Iowa Hybrid 942.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	97.53	63.83	88.4	19.6	27.9	11.9	3.2	3.8
Pfister 1897.....	Orcutt Hybrid Corn Co., Monroe.....	5000	97.51	63.21	92.1	29.2	27.8	2.9	3.3	0.3
Pfister 299.....	J. M. Hunt & Son, Ackley.....	848	97.46	65.67	90.1	26.2	31.2	7.1	2.7	0.4
Turner S55.....	Turner Hybrid Seed Corn Co., Grand Junction.....	3483	97.44	57.04	89.5	31.8	12.2	4.7	3.2	0.7
Iowa Hybrid 4249.....	Eden Valley Hybrid, Vinton.....	450	97.17	65.50	88.5	24.2	35.8	4.8	2.8	0.4
*Ioweaht QAQ.....	Michael Leonard Co., Sioux City.....	Exp.	* 97.14	59.27	87.7	26.2	16.9	10.0	3.2	1.1
Iowa Hybrid 939.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	97.09	63.54	89.1	22.5	27.2	10.3	2.9	3.9
118M.....	W. O. McCurdy & Sons, Fremont.....	1100	96.96	55.98	88.3	32.6	11.4	3.9	3.1	0.6
61.....	Epley Brothers, Shell Rock.....	50	96.76	63.92	86.9	25.3	34.0	3.5	3.0	0.5
*C44.....	Gilbert Cornelius, Bellevue.....	Exp.	* 96.24	61.87	86.0	25.0	31.5	3.6	2.8	0.9
129-1.....	Henry Field Hybrid Corn Co., Shenandoah.....	3000	96.19	57.17	86.5	30.8	15.2	5.9	3.0	0.5
Iowa Hybrid 4249.....	Iowa State Hybrid Corn Co., Elkhart.....	1000	95.66	61.02	85.2	26.6	31.3	2.4	2.8	0.0
Indiana Hybrid 608C.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	94.97	59.20	88.6	28.9	23.9	5.1	2.9	1.9
*Tomahawk 60.....	Thompson Hybrid Corn Co., Belmond.....	Exp.	* 94.62	59.29	88.2	30.4	12.4	16.5	3.3	1.3
DeKalb 639.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	94.20	60.54	89.7	28.0	25.2	9.4	2.9	0.9
*4491 x 4492.....	Genetics Section, Ames.....	Exp.	* 94.15	60.40	89.5	36.2	22.0	4.9	2.9	0.2
22-H.....	Roland Holden, Williamsburg.....	1400	93.76	61.98	90.3	25.3	33.3	7.6	3.3	0.8
Funk G-114.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	93.71	58.71	87.2	25.9	32.0	2.4	2.6	0.7
Webster 436.....	Webster Co. Seed Imp. Assn., Fort Dodge.....	600	92.77	59.76	87.0	26.7	30.4	7.4	3.2	0.6
Pfister 280.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	91.88	60.61	87.1	29.9	35.1	3.5	2.8	0.2
Pfister 260.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	90.37	56.69	86.7	27.7	32.2	4.9	2.9	0.1
	Average of all entries.....			63.59	88.8	25.4	23.2	5.8	2.9	1.0

*Experimental entries.

**Differences in yield between any two entries of less than 3.60 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

****Three hundred bushels produced in 1943.

TABLE 10. AVERAGE PERFORMANCE, REGULAR AND EXPERIMENTAL CLASS: ALL DISTRICTS OF THE SOUTH CENTRAL SECTION IN 1945.

Variety, name and address of entrant, and bushels produced in 1944			Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct. root stalk		Ear ht.	Dropped ears pct.
*C66.....	Gilbert Cornelius, Bellevue.....	Exp.	*108.89	82.67	86.9	19.9	5.8	4.7	3.1	0.3
*Reid Nat'l Hyb. 126T.....	Reid National Corn Co., Anamosa.....	Exp.	*106.10	82.00	83.1	22.8	3.7	9.9	3.4	0.8
118-H.....	Roland Holden, Williamsburg.....	600	105.30	79.99	88.4	23.1	6.8	5.2	3.4	0.1
Ohio Hybrid C92.....	J. H. Isenhardt, Batavia.....	1300	104.90	79.83	88.2	22.4	6.1	7.6	3.3	0.0
*Iowealth L25.....	Michael Leonard Co., Sioux City.....	Exp.	*104.59	79.49	89.5	21.3	2.9	11.9	3.5	0.8
129L.....	Henry Field Hybrid Corn Co., Shenandoah.....	2500	104.13	76.42	82.9	20.6	6.0	5.0	3.3	0.9
McAllister Hybrid 73.....	H. H. McAllister & Son, Mt. Union.....	225	104.09	76.63	87.7	20.9	6.7	4.9	3.3	0.2
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	103.88	79.89	86.2	20.1	14.7	4.1	3.1	0.8
Pioneer 339.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	21500	103.80	78.63	84.3	22.4	9.7	4.5	3.2	0.8
987M.....	W. O. McCurdy & Sons, Fremont.....	5200	103.56	75.99	83.3	22.8	4.3	5.4	3.2	0.1
*810.....	W. O. McCurdy & Sons, Fremont.....	Exp.	*103.49	76.17	83.2	20.7	6.1	6.5	3.3	0.1
Pioneer 339.....	Pioneer Hi-Bred Corn Co., Des Moines.....	4771	103.47	79.20	85.8	22.8	10.1	5.6	3.2	0.9
Iowa Hybrid 306.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	103.42	78.08	79.0	21.2	8.1	7.2	3.2	1.4
Iowa Hybrid 4060.....	Harold Plumb, Harlan.....	600	103.36	76.59	81.2	20.1	4.9	8.7	3.2	2.1
Pioneer 304.....	Pioneer Hi-Bred Corn Co., Des Moines.....	1596	103.26	80.43	88.0	25.5	9.1	6.7	3.1	0.3
*4494 x 4493.....	Genetics Section, Ames.....	Exp.	*103.19	80.40	87.6	26.2	6.3	8.6	3.1	1.1
G-37.....	Funk Bros. Seed Co., Belle Plaine.....	7500	103.00	73.80	79.9	20.4	3.1	6.4	3.2	0.9
*Maygold Exp. 50.....	Earl E. May Seed Co., Shenandoah.....	Exp.	*102.85	74.31	82.1	22.0	3.5	5.8	3.3	0.7
Pfister 164.....	Walden Farm, Keota.....	5000	102.66	77.75	83.3	22.6	8.0	7.7	3.2	0.3
Ohio Hybrid C92.....	Iowa State Hybrid Corn Co., Elkhart.....	1000	102.63	76.49	87.6	24.1	7.8	4.0	3.3	0.1
*Iowa Hybrid 4320.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*102.36	80.81	87.3	24.3	4.6	15.5	3.4	1.1
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	102.34	73.18	81.8	21.2	4.6	4.5	2.9	1.3
*Iowa Hybrid 4385.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*102.03	73.40	82.7	22.5	4.5	4.9	3.4	0.3
*Mullins J48.....	Mullins Hybrid Corn Co., Britt.....	Exp.	*101.93	76.37	87.1	24.6	5.0	7.9	3.3	0.5
Ohio Hybrid C92.....	Blackburn Hybrid Seed Corn Co., Grand Junction	500	101.82	75.12	86.4	24.4	6.2	4.9	3.3	0.3
*EX 661.....	Henry Field Hybrid Corn Co., Shenandoah.....	Exp.	*101.82	74.38	81.7	24.1	3.1	6.9	3.5	0.6
*W-205.....	Wilson's Hybrids, Harlan.....	Exp.	*101.73	77.47	82.5	22.9	8.9	8.3	3.2	0.9
*Tomahawk 88.....	Thompson Hybrid Corn Co., Belmont.....	Exp.	*101.67	81.23	86.7	25.9	10.2	10.9	3.3	1.0
ACE 193.....	Eliason Seed Sales, West Liberty.....	1850	101.38	79.21	84.0	23.0	5.4	15.8	3.6	1.2
Farmers 555.....	Farmers Hybrid Seed Corn Co., Hampton.....	2319	101.30	75.40	80.9	23.6	7.0	7.1	3.3	0.1
U. S. Hybrid 13.....	B. C. Hudson, Knoxville.....	500	101.23	73.49	82.6	23.5	5.1	14.7	3.5	0.8
H-97.....	McKinney Bros. & Miller, Woodbine.....	1500	101.04	72.88	82.1	23.2	6.3	4.1	3.3	0.5
C36.....	Clarke Hybrid Corn Co., Conrad.....	1100	100.96	76.13	86.0	25.7	5.5	8.3	3.3	0.9
Pioneer 336.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	15709	100.81	79.31	85.7	23.4	12.1	10.6	3.3	0.8
Ohio Hybrid C92.....	Iowa-Missouri Hybrid Corn Co., Keosauqua.....	400	100.75	78.36	86.5	24.4	9.5	10.6	3.3	0.4
Turner S53.....	Turner Hybrid Seed Corn Co., Grand Junction.....	1644	100.71	74.86	81.9	24.2	6.6	7.2	3.3	0.8
Pfister 1897.....	Oreutt Hybrid Corn Co., Monroe.....	5000	100.66	79.13	85.8	22.1	17.6	6.9	3.1	0.1
U. S. Hybrid 13.....	Marion Coppock, Ankeny.....	350	100.61	77.12	82.8	23.6	6.3	12.3	3.4	1.7
U. S. Hybrid 13.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	100.36	77.57	86.9	24.4	8.7	10.9	3.6	0.8

Pfister 280.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	100.00	76.12	82.9	22.4	13.2	7.0	3.1	0.5
Thompson 82.....	Thompson Hybrid Corn Co., Belmond.....	1800	99.95	71.54	79.9	22.3	7.8	4.2	3.3	0.5
*C320.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	* 99.90	75.54	84.9	25.2	5.1	10.9	3.1	1.2
1904.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	1200	99.85	72.61	79.7	23.3	5.1	7.7	3.1	1.2
117M.....	W. O. McCurdy & Sons, Fremont.....	1250	99.80	72.73	79.6	23.7	2.6	10.5	3.4	0.4
H-99.....	McKinney Bros. & Miller, Woodbine.....	4000	99.80	78.26	81.9	24.1	4.5	17.8	3.4	1.9
Maygold 49.....	Earl E. May Seed Co., Shenandoah.....	30000	99.70	75.45	86.2	24.5	9.4	7.9	3.3	0.9
Cornhusker 148.....	Cornhusker Hybrid Co., Fremont, Nebr.....	12660	99.58	74.06	83.3	24.6	6.2	8.8	3.1	0.6
124M.....	W. O. McCurdy & Sons, Fremont.....	5000	99.46	76.57	86.9	22.0	10.1	12.7	3.4	1.0
*Towwealth CL.....	Michael Leonard Co., Sioux City.....	Exp.	* 99.44	70.70	74.4	26.3	3.2	4.4	3.0	0.0
Pfister 390.....	Mummert Seed Co., Astoria, Ill.....	500	99.19	77.04	85.0	22.6	13.4	10.5	3.1	0.7
Iowa Hybrid 939.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	99.10	78.29	82.1	21.3	16.1	10.6	3.1	3.4
Dockendorff 13.....	Wm. Dockendorff & Sons, Danville.....	675	98.72	76.58	86.4	24.2	7.1	15.1	3.6	1.6
Pioneer 334.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	98.61	75.73	87.5	24.1	15.6	5.8	3.2	0.7
Pioneer 336.....	Pioneer Hi-Bred Corn Co., Des Moines.....	10636	98.51	74.21	87.4	25.1	11.9	6.1	3.2	0.2
Pfister 165.....	Missouri Pfister Growers Inc., Princeton, Mo...	85	98.49	69.50	80.1	23.4	8.6	2.4	3.4	0.5
Turner T60.....	Turner Hybrid Seed Corn Co., Grand Junction..	1212	98.47	69.35	77.6	24.7	5.0	4.4	3.2	0.2
*4497 x 4496.....	Genetics Section, Ames.....	Exp.	* 98.29	73.71	85.0	28.0	8.1	6.1	3.2	0.9
G-94.....	Funk Bros. Seed Co., Belle Plaine.....	5000	98.19	74.76	82.7	24.7	4.5	15.8	3.3	0.2
*Iowa Hybrid 4423.....	Farm Crops and U.S.D.A., Ames.....	Exp.	* 98.16	74.11	81.7	22.9	6.8	13.8	3.2	1.5
Iowa Hybrid 4420.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	98.14	66.48	75.7	20.9	4.3	4.9	3.2	0.2
U. S. Hybrid 35.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	97.88	73.14	83.4	25.7	5.7	11.2	3.4	0.4
Farmers 509.....	Farmers Hybrid Seed Corn Co., Hampton.....	911	97.48	74.09	81.0	24.6	12.8	8.0	3.5	1.0
129-1.....	Henry Field Hybrid Corn Co., Shenandoah.....	3000	97.36	70.94	80.4	24.0	6.8	9.3	3.2	0.6
*C321.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	* 97.35	72.86	81.8	25.7	8.7	9.1	3.3	0.8
218-H.....	Roland Holden, Williamsburg.....	350	97.35	70.37	75.8	25.1	6.6	7.2	3.1	0.7
G-169.....	Funk Bros. Seed Co., Belle Plaine.....	20000	97.22	69.51	76.8	22.8	6.4	8.7	3.5	0.8
*Tomahawk 86.....	Thompson Hybrid Corn Co., Belmond.....	Exp.	* 97.19	81.47	85.9	26.1	16.5	17.4	3.3	0.9
Fed. 169.....	A. G. Thurman, Cedar Rapids.....	600	97.07	67.60	78.6	22.8	4.7	7.0	3.3	1.3
*Reid Nat'l Hyb. 126R.....	Reid National Corn Co., Anamosa.....	Exp.	* 96.70	69.06	74.1	20.9	7.3	10.6	3.2	0.5
Pioneer 300.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	96.64	75.92	86.1	27.4	17.0	6.8	3.3	0.3
*C-15 Carlson.....	Carlson Hybrid Corn Co., Audubon.....	Exp.	* 96.63	72.99	86.8	27.0	8.5	10.0	3.3	0.9
*Iowa Hybrid 4410.....	Farm Crops and U.S.D.A., Ames.....	Exp.	* 96.22	65.95	66.2	23.0	4.2	6.7	3.1	1.2
U. S. Hybrid 13.....	Chester Runner, Gilman.....	1000	96.03	72.59	80.3	24.7	7.7	13.9	3.5	1.8
Cornhusker 50.....	Cornhusker Hybrid Co., Fremont, Nebr.....	2315	95.97	67.98	80.3	25.4	5.7	7.3	3.5	0.2
Towwealth 29A.....	Michael Leonard Co., Sioux City.....	8000	95.58	69.58	79.7	24.9	9.3	8.4	3.3	0.4
*Iowa Hybrid 4436.....	Farm Crops and U.S.D.A., Ames.....	Exp.	* 95.46	64.40	71.5	22.4	4.2	6.7	3.1	0.8
U. S. Hybrid 18.....	Kilpatrick Hybrid Corn Co., Harlan.....	1000	95.16	69.45	77.6	26.0	5.5	11.6	3.5	1.1
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	94.72	71.24	75.4	19.4	15.4	13.1	3.0	2.0
DeKalb 639.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	93.46	68.75	78.3	25.3	8.9	12.5	2.9	0.7
1908.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	1500	90.80	62.54	73.4	26.2	6.4	10.0	3.2	0.6
Reid Nat'l Hyb. 129.....	Reid National Corn Co., Anamosa.....	1000	90.34	67.20	79.1	26.6	17.8	8.1	3.4	0.6
Average of all entries.....				74.77	82.5	23.6	7.7	8.6	3.3	0.8

*Experimental entries.

**Differences in yield between any two entries of less than 4.71 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 11. AVERAGE PERFORMANCE, REGULAR AND EXPERIMENTAL CLASS: ALL DISTRICTS OF THE SOUTHERN SECTION IN 1945.

Variety, name and address of entrant, and bushels produced in 1944		Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct. root stalk		Ear ht.	Dropped ears pct.	
ACE 43.....	Eliason Seed Sales, West Liberty.....	****	117.93	91.93	88.6	18.8	20.2	18.8	3.3	0.0
*Maygold Exp. 50.....	Earl E. May Seed Co., Shenandoah.....	Exp.	*117.25	94.79	88.5	19.1	21.4	20.6	3.6	0.5
*Reid Nat'l Hyb. 129R.....	Reid National Corn Co., Anamosa.....	Exp.	*112.99	94.81	84.6	19.5	23.9	18.7	3.4	0.0
218-H.....	Roland Holden, Williamsburg.....	350	112.67	90.27	88.2	18.5	22.5	22.5	3.5	0.0
G-37.....	Funk Bros. Seed Co., Belle Plaine.....	7500	111.00	88.07	88.8	17.5	23.3	22.7	3.7	0.5
Pioneer 333.....	Pioneer Hi-Bred Corn Co., Des Moines.....	3595	108.80	89.71	87.6	19.0	23.5	21.1	3.3	0.0
*Iowa Hybrid 4383.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*108.32	89.08	88.1	18.1	29.8	20.4	3.3	0.3
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	108.32	87.33	91.0	19.3	36.5	11.6	3.1	0.8
Ohio Hybrid C92.....	Iowa-Missouri Hybrid Corn Co., Keosauqua.....	400	106.71	90.93	93.1	18.8	23.1	25.2	3.4	1.0
Pioneer 317.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	5748	106.11	86.59	84.7	18.7	34.6	16.2	3.4	0.8
Turner T60.....	Turner Hybrid Seed Corn Co., Grand Junction.....	1212	105.64	86.40	89.2	18.1	30.7	21.0	3.4	0.3
Fed. 169.....	A. G. Thurman, Cedar Rapids.....	600	105.29	83.14	88.3	18.6	26.3	23.1	3.7	0.5
Farmers 555.....	Farmers Hybrid Seed Corn Co., Hampton.....	2319	105.16	91.61	92.8	19.0	24.6	31.4	3.4	0.2
Turner S53.....	Turner Hybrid Seed Corn Co., Grand Junction.....	1644	105.11	87.53	90.4	20.3	31.2	21.0	3.5	0.2
DeKalb 800A.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	104.63	89.18	91.1	19.2	30.0	24.5	3.7	0.9
Pfister 165.....	Missouri Pfister Growers Inc., Princeton, Mo.....	85	104.30	88.98	86.8	17.9	32.8	22.9	3.5	0.2
*Iowa Hybrid 4320.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*103.96	91.30	88.1	21.0	24.0	32.3	3.7	0.5
Funk G-169.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	103.70	86.01	87.8	18.7	26.0	27.5	3.7	1.6
H-97.....	McKinney Bros. & Miller, Woodbine.....	1500	103.47	84.00	89.3	19.3	33.3	19.0	3.3	0.0
Ohio Hybrid C92.....	Kilpatrick Hybrid Corn Co., Harlan.....	400	103.35	87.35	91.8	18.0	30.5	25.1	3.7	0.3
Ohio Hybrid C92.....	Iowa State Hybrid Corn Co., Elkhart.....	1000	103.21	87.98	92.8	17.8	37.7	18.7	3.3	0.2
*EX 571.....	Henry Field Hybrid Corn Co., Shenandoah.....	Exp.	*102.71	89.27	90.8	19.8	35.9	21.1	3.8	0.5
Pioneer 336.....	Pioneer Hi-Bred Corn Co., Des Moines.....	10636	102.68	92.49	93.5	19.1	27.9	32.1	3.6	0.0
Illinois Hybrid 201.....	B. C. Hudson, Knoxville.....	400	102.56	89.59	91.9	18.6	28.1	30.1	3.9	0.2
*C-32 Carlson.....	Carlson Hybrid Corn Co., Audubon.....	Exp.	*102.53	84.36	88.3	21.8	27.2	25.3	3.4	0.2
*C321.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*102.48	86.49	86.5	21.7	23.4	25.8	3.6	0.3
Pioneer Exp. 00693.....	Pioneer Hi-Bred Corn Co., Des Moines.....	****	102.38	90.90	91.7	19.8	34.1	24.7	3.2	0.3
Maygold 49.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	101.90	88.86	92.9	18.1	31.4	27.4	3.4	0.2
Pioneer Exp. 20547.....	Pioneer Hi-Bred Corn Co., Des Moines.....	53	101.82	87.66	90.4	21.5	37.2	19.1	3.2	0.0
*Iowa Hybrid 4423.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*101.80	93.86	90.6	19.0	29.5	32.8	3.8	0.3
Pioneer 336.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	15709	101.69	94.60	93.1	19.1	29.4	33.4	3.6	0.9
Cornhusker 50.....	Cornhusker Hybrid Co., Fremont, Nebr.....	2315	101.66	82.96	86.0	21.4	29.9	22.9	3.6	0.0
124M.....	W. O. McCurdy & Sons, Fremont.....	5000	101.18	88.22	89.3	18.9	27.4	31.4	3.7	0.3
U. S. Hybrid 35.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	101.11	90.56	91.9	19.8	28.6	31.7	3.5	0.2
Ohio Hybrid C92.....	H. H. McAllister & Son, Mt. Union.....	1800	100.90	88.10	92.9	18.5	35.7	23.6	3.4	0.0
U. S. Hybrid 13.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	100.81	93.56	93.1	20.4	29.4	33.3	3.8	0.3
987M.....	W. O. McCurdy & Sons, Fremont.....	5200	100.47	91.24	92.5	18.8	33.0	29.1	3.5	0.3
Funk G-94.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	100.21	89.05	87.9	20.3	26.7	33.3	3.7	0.3
*Iowa Hybrid 4416.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*100.17	86.59	90.4	20.6	30.4	27.5	3.6	0.9
1904A.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	700	100.13	86.90	91.5	19.5	22.9	35.8	3.8	1.1
Ohio Hybrid C92.....	J. H. Isenhardt, Batavia.....	1300	100.05	87.85	91.4	18.3	39.8	20.5	3.6	0.3

123M.....	W. O. McCurdy & Sons, Fremont.....	2000	100.08	89.55	90.8	19.5	26.9	34.1	3.8	0.6
U. S. Hybrid 13.....	Lincoln Seed Co., Pacific Junction.....	3000	99.54	87.49	88.6	19.1	25.2	35.1	3.7	0.3
Iowaleth 29A.....	Michael Leonard Co., Sioux City.....	8000	99.43	84.35	87.6	19.9	33.9	23.8	3.4	0.2
*Reid Nat'l Hyb. 126R.....	Reid National Corn Co., Anamosa.....	Exp.	* 99.39	89.26	84.2	17.7	33.6	29.0	3.8	0.5
*810.....	W. O. McCurdy & Sons, Fremont.....	Exp.	* 99.21	86.22	92.6	19.0	37.6	22.2	3.3	0.5
Pfister 164.....	Walden Farm, Keota.....	5000	99.21	86.73	90.8	19.1	33.3	26.9	3.3	0.2
Reid Nat'l Hyb. 127.....	Reid National Corn Co., Anamosa.....	1030	99.18	86.40	89.6	19.9	41.1	18.5	3.8	0.5
U. S. Hybrid 13.....	B. C. Hudson, Knoxville.....	500	98.56	91.50	89.6	19.3	25.6	39.1	3.9	0.5
Iowaleth 25A.....	Michael Leonard Co., Sioux City.....	3800	98.53	82.44	86.0	20.9	27.8	29.1	3.7	0.3
422I.....	J. H. Isenhardt, Batavia.....	900	98.52	83.64	92.4	20.6	29.6	28.3	3.4	0.8
135R.....	Henry Field Hybrid Corn Co., Shenandoah.....	4000	98.29	84.80	86.4	20.3	26.1	33.1	3.8	1.1
Thompson 82.....	Thompson Hybrid Corn Co., Belmond.....	1800	98.18	87.03	90.3	18.3	43.6	18.6	3.5	0.3
DeKalb 827.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	98.11	84.56	86.7	19.4	27.1	32.9	3.4	0.0
Dockendorff 13.....	Wm. Dockendorff & Sons, Danville.....	675	97.94	91.99	92.6	20.6	19.8	45.4	3.9	0.5
124-H.....	Roland Holden, Williamsburg.....	1100	97.91	91.50	92.6	18.9	31.8	34.0	3.8	0.2
*Iowaleth L25.....	Michael Leonard Co., Sioux City.....	Exp.	* 97.89	94.79	93.3	17.5	21.3	47.8	3.7	0.5
Meyer Hybrid No. 541.....	Clarence Meyer, Winterset.....	1910	97.75	83.57	91.4	20.3	33.7	25.4	3.4	0.3
ACE 193.....	Eliason Seed Sales, West Liberty.....	1850	97.74	87.08	88.8	20.7	24.7	36.9	3.7	0.3
*820.....	W. O. McCurdy & Sons, Fremont.....	Exp.	* 97.73	82.20	86.7	20.5	31.6	26.4	3.8	0.2
Pioneer 332.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	27101	97.71	87.63	90.6	23.9	29.3	31.3	-3.9	0.2
Farmers 688.....	Farmers Hybrid Seed Corn Co., Hampton.....	625	97.43	89.63	91.0	20.6	27.3	36.8	4.1	0.3
H-99.....	McKinney Bros. & Miller, Woodbine.....	4000	97.41	87.50	89.1	20.8	25.9	36.6	3.8	0.2
Vinton V98.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	97.38	78.72	81.5	20.3	23.7	32.2	3.7	0.2
C-33 Carlson.....	Carlson Hybrid Corn Co., Audubon.....	5000	96.64	86.64	90.6	18.2	35.7	28.4	3.6	0.2
Tomahawk 7W.....	Thompson Hybrid Corn Co., Belmond.....	200	96.53	72.40	84.2	22.9	37.1	13.5	4.0	0.8
Meyer Hybrid No. 530.....	Clarence Meyer, Winterset.....	135	96.20	86.64	94.2	18.3	39.2	25.4	3.3	0.4
*C320.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	* 94.96	85.51	92.6	21.8	30.3	33.4	3.5	0.0
G-80.....	Funk Bros. Seed Co., Belle Plaine.....	10000	93.24	88.15	90.6	22.3	36.4	31.4	3.9	0.3
Maygold 39.....	Earl E. May Seed Co., Shenandoah.....	1400	93.02	81.84	89.4	20.5	23.5	40.7	3.8	0.2
*C-26 Carlson.....	Carlson Hybrid Corn Co., Audubon.....	Exp.	* 92.98	88.58	92.1	21.4	37.6	31.4	3.4	0.3
Pioneer 300.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	92.83	88.26	93.8	21.3	43.4	25.5	3.3	0.6
Cornhusker 30.....	Cornhusker Hybrid Co., Fremont, Nebr.....	3940	92.10	83.61	87.9	23.0	38.5	27.1	3.7	0.0
1904.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	1200	92.03	78.96	92.4	19.7	31.4	32.2	3.2	0.3
135L.....	Henry Field Hybrid Corn Co., Shenandoah.....	2000	91.34	84.40	86.1	20.2	32.6	35.3	3.8	1.0
GOLDLINE 378.....	Bruns Seed Company, Davenport.....	100	90.42	87.86	85.8	22.3	35.9	35.4	3.9	0.5
*Pfister 660.....	Missouri Pfister Growers Inc., Princeton, Mo.....	Exp.	* 90.26	71.78	87.2	26.9	40.9	15.9	4.1	0.0
*Mullins J46.....	Mullins Hybrid Corn Co., Britt.....	Exp.	* 88.56	84.82	89.2	21.2	38.3	33.8	3.7	0.3
*Iowaleth L 25A.....	Michael Leonard Co., Sioux City.....	Exp.	* 87.46	88.42	84.6	21.1	42.9	33.5	4.1	0.8
*Tomahawk 82.....	Thompson Hybrid Corn Co., Belmond.....	Exp.	* 81.34	84.91	89.4	25.8	35.1	44.6	3.6	0.3
*Cornhusker 63.....	Cornhusker Hybrid Co., Fremont, Nebr.....	Exp.	* 80.00	89.11	81.7	18.4	75.5	12.9	3.1	0.7
Average of all entries.....				87.41	89.5	19.9	31.5	27.8	3.6	0.4

*Experimental entries.

**Differences in yield between any two entries of less than 5.36 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

****Fifty-five bushels produced in 1943.

*****Fifty bushels produced in 1943.

TABLE 12. RESULTS FROM DISTRICT ONE, REGULAR AND EXPERIMENTAL CLASS: TEST PLOT LOCATED NEAR SHELDON IN SIOUX COUNTY.

Variety, name and address of entrant, and bushels produced in 1944				Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct. root stalk		Ear ht.	Dropped ears pct.
*GOLDLINE 279.....	Bruns Seed Company, Davenport.....	Exp.	*115.80	67.62	89.2	17.9	0.0	1.9	2.5	0.0	0.0
*Iowa Hybrid 4441.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*115.45	69.02	92.8	19.2	0.0	5.1	3.0	0.3	0.3
*Iowa Hybrid 4334.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*115.09	67.08	91.1	18.6	0.3	0.6	3.0	1.5	1.5
Iowa Hybrid 4316.....	Jonas J. Akre, Decorah.....	250	113.30	67.55	90.0	22.7	0.0	3.1	3.2	0.3	0.3
*Iowa Hybrid 4417.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*112.79	64.81	88.6	17.9	0.3	3.1	3.0	0.0	0.0
*Iowa Hybrid 4442.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*112.33	66.65	91.1	21.2	2.7	2.7	3.0	0.6	0.6
*Iowa Hybrid 4390.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*112.24	65.12	90.6	19.6	1.5	2.2	3.0	0.3	0.3
DeKalb 240.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	111.53	64.72	94.2	20.0	2.4	1.8	3.2	0.6	0.6
461.....	Wm. P. Eno, Sheffield.....	2400	110.87	64.50	83.3	21.3	1.0	2.7	3.2	1.0	1.0
*Allee Hybrid 255.....	Geo. M. Allee, Newell.....	Exp.	*110.86	71.06	95.3	22.5	7.9	12.5	3.2	1.8	1.8
*Mullins J63.....	Mullins Hybrid Corn Co., Britt.....	Exp.	*110.83	67.62	95.0	20.1	0.9	12.9	3.5	2.1	2.1
103H.....	H. E. Harper, Vinton.....	60	110.33	64.72	90.3	21.9	0.9	4.6	3.3	0.3	0.3
*C-4' Carlson.....	Carlson Hybrid Corn Co., Audubon.....	Exp.	*108.61	62.89	98.1	23.6	0.3	2.4	3.0	2.1	2.1
Iowa Hybrid 4316.....	Malcolm H. Grieve, Pierson.....	300	107.56	63.63	88.3	27.2	0.3	2.5	3.0	3.1	3.1
Pioneer 353.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	107.35	60.92	91.9	22.6	0.3	2.4	3.0	1.5	1.5
Pioneer 355.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	106.99	60.38	89.4	16.4	7.1	2.8	3.0	2.8	2.8
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	106.34	58.65	82.8	21.0	0.0	1.7	3.3	1.3	1.3
Iowa Hybrid 4297.....	O. W. Johnson & Son, LeGrand.....	2200	106.02	60.46	91.9	25.8	0.9	0.9	3.2	0.6	0.6
*Tomahawk 35.....	Thompson Hybrid Corn Co., Belmond.....	Exp.	*106.00	61.34	95.0	24.0	0.0	4.7	3.8	5.0	5.0
Feldcorn 4316.....	Feldcorn Co., Breda.....	1500	105.59	60.43	86.9	25.0	0.3	3.8	3.2	0.6	0.6
Pride D66.....	Twin City Seed Co., Minneapolis, Minn.....	12000	105.45	61.15	87.8	23.7	0.3	1.0	3.2	1.6	1.6
DeKalb 410.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	105.27	59.83	88.9	25.6	0.9	1.9	3.0	0.3	0.3
Iowa Hybrid 4316.....	John Sand, Marcus.....	300	104.98	61.13	87.8	26.8	0.0	4.8	3.0	2.5	2.5
Pioneer 353A.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	104.90	58.24	88.6	20.4	0.9	4.7	3.0	1.9	1.9
*Iowa Hybrid 4308.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*104.83	56.55	88.6	20.0	0.3	1.6	3.0	1.3	1.3
*Iowa Hybrid 4354.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*104.82	59.03	90.6	27.2	0.0	0.0	3.2	0.0	0.0
*Iowa Hybrid 4316.....	Edgar Snyder, Breda.....	Exp.	*104.01	59.07	86.4	25.6	0.3	4.2	3.0	0.6	0.6
Pride D56.....	Twin City Seed Co., Minneapolis, Minn.....	7000	103.89	58.11	81.9	23.0	2.4	3.4	3.0	0.3	0.3
*Iowwealth 11.....	Michael Leonard Co., Sioux City.....	Exp.	*103.78	60.80	92.5	22.9	1.2	11.4	3.3	3.0	3.0
Iowa Hybrid 4316.....	Donald D. Usher, Ottosen.....	700	103.64	59.77	88.9	26.8	1.9	4.1	3.0	0.9	0.9
*Tomahawk 42.....	Thompson Hybrid Corn Co., Belmond.....	Exp.	*103.59	61.86	92.2	23.6	0.0	9.6	3.0	0.9	0.9
*C214.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*103.56	59.73	94.2	30.5	0.0	1.2	3.3	0.9	0.9
1951.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	2000	103.20	58.01	85.3	27.2	0.0	2.0	3.0	0.7	0.7
Gurney Golden 112.....	Gurney Seed & Nursery Co., Yankton, S. D.....	4000	102.99	58.32	88.9	27.7	0.9	1.9	3.0	0.6	0.6
*C404.....	Gilbert Cornelius, Bellevue.....	Exp.	*101.88	57.32	92.5	22.8	0.6	9.3	3.5	0.9	0.9
H-81.....	McKinney Bros. & Miller, Woodbine.....	400	101.63	56.56	85.6	23.1	0.3	1.3	3.3	0.7	0.7
Iowa Hybrid 4316.....	Roy Fanselow, Dows.....	660	100.91	58.38	91.9	29.5	0.3	7.0	3.0	0.6	0.6
100R.....	Henry Field Hybrid Corn Co., Shenandoah.....	2000	100.72	57.15	83.3	29.5	1.0	3.0	3.0	1.3	1.3
95M.....	W. O. McCurdy & Sons, Fremont.....	2500	100.29	53.51	85.3	23.3	1.0	2.9	3.0	0.0	0.0
Pioneer 340.....	Pioneer Hi-Bred Corn Co., Des Moines.....	41436	99.67	55.38	93.9	31.5	0.0	0.0	3.3	0.6	0.6

W-200.....	Wilson's Hybrids, Harlan.....	1400	99.43	55.99	91.7	28.6	3.0	2.4	3.3	2.4
*66b.....	Epley Brothers, Shell Rock.....	****	* 98.68	55.77	88.3	29.5	0.9	6.0	3.0	0.6
Iowa Hybrid 4316.....	Emil J. Kruger, Bellevue.....	800	98.65	55.61	88.1	32.5	0.3	1.9	3.0	1.3
Iowa Hybrid 4316.....	Iowa State Hybrid Corn Co., Elkhart.....	500	98.55	55.93	90.8	32.0	1.5	3.1	3.0	0.3
T-45.....	Glenn Thurston, Garwin.....	80	98.46	55.38	89.4	32.5	0.3	2.5	3.0	0.0
Pfister 75.....	Northern Seed Co., Garden Prairie, Ill.....	100	97.69	51.98	87.8	21.6	0.3	8.5	3.2	2.5
Pfister 4897.....	Wilson-Rininger Corn Co., Sac City.....	3000	97.63	55.29	85.3	33.6	3.5	0.0	3.4	0.4
Iowa Hybrid 4316.....	Milford Beeghy, Pierson.....	7000	97.61	54.28	89.7	31.5	0.0	3.7	3.2	0.0
Iowa Hybrid 4316.....	J. H. Isenhardt, Batavia.....	650	97.58	53.75	85.8	28.6	1.3	4.9	3.0	0.0
Iowa Hybrid 4316.....	Kilpatrick Hybrid Corn Co., Harlan.....	400	96.88	52.48	81.4	29.5	1.0	2.4	3.2	0.3
*Cornelius C30.....	Chas. J. Cornelius, Bellevue.....	Exp.	* 96.85	53.40	90.8	32.5	0.6	1.5	3.0	0.3
Schmitz No. 410.....	Albert M. Schmitz, Remsen.....	500	96.56	52.62	86.7	30.0	1.3	2.9	3.0	0.3
Farmers 304A.....	Farmers Hybrid Seed Corn Co., Hampton.....	2700	96.46	49.85	80.6	26.8	0.0	1.0	3.0	0.0
Pfister 299.....	J. M. Hunt, Ackley.....	500	96.43	53.42	83.1	32.5	0.0	3.0	3.0	1.3
55-H.....	Roland Holden, Williamsburg.....	1600	96.18	54.31	90.0	35.8	0.0	2.2	3.3	0.9
*Iowearth Q16.....	Michael Leonard Co., Sioux City.....	Exp.	* 95.65	53.29	93.3	31.5	0.3	6.3	3.3	1.2
Mellowdent No. 90.....	Louis Quirin, Alta.....	634	95.16	51.21	85.3	32.0	0.7	1.3	3.2	0.3
Pioneer 322.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	94.98	50.38	82.8	27.2	0.0	6.0	3.2	1.3
*Reid Nat'l Hyb. 115R.....	Reid National Corn Co., Anamosa.....	Exp.	* 94.92	54.64	93.3	35.0	0.0	4.5	3.8	8.6
Wisconsin Hybrid 645.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	94.88	50.32	86.4	29.6	0.6	2.6	3.0	1.0
Fed. 222.....	A. G. Thurman, Cedar Rapids.....	2200	94.66	50.63	87.5	31.5	1.3	1.3	3.0	0.3
Master F 101.....	Farmer Seed & Nursery Co., Faribault, Minn.....	2342	94.46	49.20	89.2	23.6	2.8	6.2	3.2	1.6
Pioneer 341.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	93.74	51.77	92.2	36.7	1.2	0.6	3.0	0.3
Iowa Hybrid 4249.....	Eden Valley Hybrid, Vinton.....	450	93.54	51.81	86.9	36.7	0.0	2.6	3.2	0.3
Pioneer 340.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	25000	93.49	50.17	90.0	35.0	0.0	0.3	3.2	0.3
Webster 414.....	Webster Co. Seed Imp. Assn., Fort Dodge.....	250	93.36	47.92	81.7	30.1	0.0	1.0	3.2	0.0
Indiana Hybrid 210B.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	93.22	47.96	82.5	23.3	2.7	7.7	3.0	0.3
Maygold 99A.....	Earl May Seed Co., Shenandoah.....	15000	93.12	49.50	81.7	31.5	0.3	3.1	3.0	2.0
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	92.89	49.78	87.5	34.4	0.6	1.3	3.3	0.3
Iowa Hybrid 4316.....	Elmer Noland, Radcliffe.....	1000	91.30	47.53	80.8	32.5	0.0	2.4	3.2	1.7
Pfister 366.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	91.02	50.51	90.8	34.4	1.8	8.0	3.5	0.6
Iowa Hybrid 931.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	89.47	50.53	84.7	28.6	8.5	10.2	3.3	8.5
G-29.....	Funk Bros. Seed Co., Bloomington, Ill.....	85000	89.12	47.60	82.8	39.8	0.3	0.3	3.0	0.0
G-16.....	Funk Bros. Seed Co., Belle Plaine.....	10000	88.56	48.88	91.1	42.1	1.5	1.5	3.0	0.0
Turner N 14 A.....	Turner Hybrid Seed Corn Co., Grand Junction.....	223	88.12	46.22	80.6	38.7	0.0	1.4	3.0	0.0
G-114.....	Funk Bros. Seed Co., Belle Plaine.....	40000	87.61	44.07	90.8	35.0	0.9	0.3	3.0	1.2
*ACE 94.....	Eliason Seed Sales, West Liberty.....	Exp.	* 87.51	46.08	88.3	35.0	0.0	7.9	3.0	0.0
*Reid Nat'l Hyb. 114R.....	Reid National Corn Co., Anamosa.....	Exp.	* 87.31	47.91	93.3	41.0	0.6	2.7	3.7	5.1
Cornhusker 81.....	Cornhusker Hybrid Corn Co., Fremont, Nebr.....	511	86.41	43.27	86.4	35.0	0.0	2.9	3.0	1.0
Mellowdent 94.....	J. N. Horlacher & Son, Storm Lake.....	750	83.49	42.38	82.5	42.1	0.0	0.7	3.0	0.0
Indiana Hybrid 432.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	78.61	37.78	65.7	35.3	6.1	5.6	3.4	1.0
Average of all entries.....			55.93	88.1	28.3	1.0	3.5	3.1	1.2	

*Experimental Entries.

**Differences in yield between any two entries of less than 5.19 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

****Produced in 1943.

TABLE 13. RESULTS FROM DISTRICT FOUR, REGULAR AND EXPERIMENTAL CLASS:
TEST PLOT LOCATED NEAR STORM LAKE IN BUENA VISTA COUNTY

Variety, name and address of entrant, and bushels produced in 1944				Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct. root stalk		Ear ht.	Dropped ears pct.
*Iowa Hybrid 4397.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*117.59	57.40	86.4	23.4	5.5	0.6	2.0	0.0	
*Iowa Hybrid 4411.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*116.74	55.38	82.8	22.4	3.0	0.0	2.0	0.3	
Iowa Hybrid 4316.....	John Sand, Marcus.....	300	116.10	55.24	87.2	22.8	3.8	0.3	2.2	0.0	
*Iowa Hybrid 4345.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*112.62	52.70	78.1	24.5	3.9	0.0	2.3	0.0	
*W-215.....	Wilson Hybrids, Harlan.....	Exp.	*112.44	53.79	84.7	26.2	5.9	0.0	2.7	0.0	
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	110.12	51.73	86.1	22.3	10.3	0.7	2.5	0.3	
Cornelius C 59.....	Chas. J. Cornelius, Bellevue.....	150	109.94	51.50	89.2	24.2	8.1	0.3	2.2	0.0	
Mellowdent No. 90.....	J. N. Horlacker & Son, Storm Lake.....	1000	109.77	52.56	83.8	21.2	16.4	0.0	2.3	0.0	
*Mullins J 50.....	Mullins Hybrid Corn Co., Britt.....	Exp.	*109.74	54.19	92.5	30.9	9.0	0.3	2.5	0.0	
432A.....	Emil J. Kruger, Bellevue.....	55	109.67	51.71	87.8	22.6	10.8	1.3	2.2	0.0	
*Allee Hybrid 255-A-A.....	Geo. M. Allee, Newell.....	Exp.	*108.88	53.38	87.0	22.4	20.3	0.0	2.4	0.0	
*Feldcorn 43-8.....	Feldcorn Co., Breda.....	Exp.	*108.58	48.08	84.2	19.7	6.6	0.0	2.8	0.7	
Fed. 222.....	A. G. Thurman, Cedar Rapids.....	2200	108.14	50.06	81.0	22.6	10.7	0.4	2.2	0.0	
Maygold 99A.....	Earl E. May Seed Co., Shenandoah.....	15000	107.89	48.72	81.1	23.0	6.5	0.3	2.2	0.0	
Iowa Hybrid 4295.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	107.61	50.13	86.3	26.6	7.0	0.8	2.2	0.0	
Iowa Hybrid 4297.....	O. W. Johnson & Son, LeGrand.....	2200	107.35	49.08	80.8	24.1	8.3	0.0	2.0	0.0	
*Hamann Hybrid H45.....	Herman Hamann, Anthon.....	Exp.	*106.69	47.78	84.2	22.8	7.6	0.0	2.2	0.0	
Iowa Hybrid 4298.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	105.82	48.12	77.5	28.9	2.9	0.4	2.3	0.4	
Pioneer 322.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	105.20	48.65	86.4	22.0	15.8	0.3	2.7	0.0	
*C246.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*104.38	46.42	81.9	27.6	3.4	0.3	2.8	0.0	
Iowa Hybrid 3553.....	Roy Faselow, Dows.....	630	103.66	46.32	80.6	22.9	11.7	0.0	2.3	0.0	
*C 44.....	Gilbert Cornelius, Bellevue.....	Exp.	*103.25	44.91	78.9	27.6	2.1	0.0	2.5	0.0	
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	103.14	47.64	87.8	28.0	10.8	0.3	2.5	0.0	
*Reid Nat'l Hyb. 115A.....	Reid National Corn Co., Anamosa.....	Exp.	*102.55	49.17	88.1	26.1	20.2	0.3	3.0	0.0	
*C-9 Carlson.....	Carlson Hybrid Corn Co., Audubon.....	Exp.	*102.28	49.23	91.4	34.2	9.7	1.2	2.7	0.0	
*GOLDLINE 333.....	Bruns Seed Company, Davenport.....	Exp.	*102.16	45.10	78.3	24.1	10.3	0.4	2.0	0.0	
Beeghly 150.....	Millford Beeghly, Pierson.....	2500	102.06	43.87	75.8	26.2	4.0	0.0	2.0	0.0	
Mellowdent No. 94.....	Louis Quirin, Alta.....	687	101.88	45.22	84.4	29.9	4.3	0.0	2.5	0.0	
Iowa Hybrid 4249.....	Elmer Narland, Radcliffe.....	170	101.73	44.83	81.7	29.8	3.1	0.3	2.5	0.3	
100R.....	Henry Field Hybrid Corn Co., Shenandoah.....	2000	101.49	44.90	72.3	24.1	11.5	0.5	2.2	0.0	
Indiana Hybrid 416B.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	101.47	46.14	85.6	29.8	9.1	0.3	2.0	0.0	
Iowa Hybrid 942.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	101.30	46.24	80.0	20.7	18.1	3.1	3.0	0.7	
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames	Comp.	101.24	46.87	85.6	27.5	14.6	0.3	2.3	0.0	
T-50.....	Glenn Thurston, Garwin.....	80	100.67	44.74	83.6	30.8	5.0	0.0	2.3	0.3	
Gurney Golden 112.....	Gurney Seed & Nursery Co., Yankton, S. D.....	4000	100.45	44.91	79.4	26.5	11.9	0.0	2.3	0.4	
McAllister Hybrid 9.....	H. H. McAllister & Son, Mt. Union.....	350	100.25	45.09	85.6	33.4	4.2	0.0	2.5	0.0	
1942.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	4000	100.22	45.59	78.9	23.2	16.9	2.1	2.5	0.7	
Iowa Hybrid 4059.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.15	46.05	84.4	30.9	10.5	0.3	3.0	0.3	
Pfister 299.....	J. M. Hunt & Son, Ackley.....	848	99.82	44.01	83.0	32.4	3.2	0.0	2.0	0.0	
*Iowa Hybrid 4425.....	Farm Crops and U.S.D.A., Ames.....	Exp.	* 99.76	46.50	82.7	37.4	4.8	0.4	2.8	0.0	

Funk G-114.....	Iowa Corn & Small Grain Growers' Assn., Ames Comp.	99.62	43.10	80.6	29.0	5.2	0.0	2.2	0.0
*C257.....	Clarke Hybrid Corn Co., Conrad..... Exp.	* 99.47	45.09	85.6	29.4	10.7	1.0	3.0	0.3
Indiana Hybrid 608C.....	Iowa Agr. Exp. Assn., Ames..... Comp.	99.31	45.62	82.2	31.8	9.5	1.0	2.3	1.0
Turner S57.....	Turner Hybrid Seed Corn Co., Grand Junction.. 1094	99.22	44.65	87.5	37.4	0.6	0.0	2.8	0.0
Pioneer 333.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.. 7500	99.16	45.23	84.7	33.5	7.5	0.3	2.7	0.0
G-29.....	Funk Bros. Seed Co., Bloomington, Ill..... 35000	98.74	43.15	84.7	31.9	3.9	0.0	2.0	0.7
G-16.....	Funk Bros. Seed Co., Belle Plaine..... 10000	98.69	43.52	87.5	30.9	6.4	0.3	2.2	0.6
Iowa Hybrid 939.....	Iowa Corn & Small Grain Growers' Assn., Ames ***	98.56	45.44	83.6	27.1	16.9	1.7	2.7	0.3
*Tomahawk 66.....	Thompson Hybrid Corn Co., Belmond..... Exp.	* 98.53	46.56	81.9	34.3	12.9	0.3	2.7	0.0
*4488 x 4489.....	Genetics Section, Ames..... Exp.	* 98.48	45.19	81.1	39.7	1.4	0.3	3.0	0.0
Iowa Hybrid 306.....	Iowa Corn & Small Grain Growers' Assn., Ames ***	98.30	45.26	82.5	29.9	15.2	0.0	2.2	0.3
Pioneer 339.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.. 21500	97.56	44.64	88.9	34.9	8.8	0.0	2.7	0.3
Cornhusker 148.....	Cornhusker Hybrid Co., Fremont, Nebr..... 12660	97.21	43.98	89.7	34.9	7.1	0.6	2.3	0.0
22-H.....	Roland Holden, Williamsburg..... 1400	96.87	42.56	84.4	28.9	10.2	1.6	2.8	0.0
Pfister 390.....	Mummert Seed Co., Astoria, Ill..... 500	96.53	42.78	80.6	31.4	9.3	1.0	2.8	0.0
61.....	Epley Brothers, Shell Rock..... 50	96.40	43.50	82.2	32.3	11.2	0.7	2.7	0.3
Pfister 1897.....	Oreutt Hybrid Corn Co., Monroe..... 5000	96.36	42.72	88.3	37.4	2.4	0.5	2.8	0.0
Illinois Hybrid 751.....	Iowa Agr. Exp. Assn., Ames..... Comp.	96.23	42.40	83.1	32.9	8.0	0.0	2.2	0.0
Iowa Hybrid 4249.....	Eden Valley Hybrid, Vinton..... 450	95.90	43.53	82.5	28.8	18.2	0.0	2.2	0.0
Pfister 280.....	Iowa Corn & Small Grain Growers' Assn., Ames ***	95.85	40.72	77.0	35.6	0.0	0.0	2.4	0.0
J-39.....	Jacobsen Hybrid Corn Co., Lake View..... ****	95.54	41.14	73.0	33.9	3.7	0.9	2.6	0.0
Pride D66.....	Twin City Seed Co., Minneapolis, Minn..... 12000	94.30	41.77	81.7	32.4	11.9	0.3	2.8	0.3
Turner S55.....	Turner Hybrid Seed Corn Co., Grand Junction.. 3483	93.97	40.50	82.5	38.6	0.7	0.3	2.7	0.0
Farmers 439.....	Farmers Hybrid Seed Corn Co., Hampton..... 3590	93.96	43.03	86.1	35.7	12.3	1.0	2.7	0.3
DeKalb 639.....	Iowa Corn & Small Grain Growers' Assn., Ames ***	93.66	41.37	83.6	36.5	6.6	1.0	2.0	0.0
Webster 436.....	Webster Co. Seed Imp. Assn., Fort Dodge..... 600	92.69	38.72	82.3	31.9	6.5	1.2	2.8	0.0
*Towleth QAO.....	Michael Leonard Co., Sioux City..... Exp.	* 92.62	39.83	80.6	32.9	10.0	0.3	2.7	0.0
Iowa Hybrid 306.....	Malcolm H. Grieve, Pierson..... 500	92.57	40.48	81.3	33.5	11.9	0.0	2.6	0.0
Iowa Hybrid 303.....	Iowa Agr. Exp. Assn., Ames..... Comp.	92.02	41.54	79.7	31.4	19.5	0.4	2.0	0.0
*4491 x 4492.....	Genetics Section, Ames..... Exp.	* 91.90	41.10	84.7	43.0	3.3	0.3	2.7	0.0
Reid Nat'l Hyb. 118R.....	Reid National Corn Co., Anamosa..... 9000	91.57	39.58	83.1	38.9	4.4	0.0	2.7	1.0
Pfister 260.....	Iowa Corn & Small Grain Growers' Assn., Ames ***	91.43	37.95	78.3	31.4	8.9	0.7	2.3	0.0
129-1.....	Henry Field Hybrid Corn Co., Shenandoah..... 3000	90.92	38.95	82.7	39.7	3.6	0.0	2.6	0.0
Pioneer 341.....	Pioneer Hi-Bred Corn Co., Des Moines..... 33670	90.53	40.45	81.4	34.2	16.4	0.7	2.0	0.0
*Tomahawk 60.....	Thompson Hybrid Corn Co., Belmond..... Exp.	* 90.22	38.68	80.3	39.7	4.5	0.4	3.0	0.0
*Towleth LAQ.....	Michael Leonard Co., Sioux City..... Exp.	* 89.89	40.72	84.7	41.9	9.2	0.7	2.7	0.0
ACE 395.....	Eliason Seed Sales, West Liberty..... 1500	89.85	38.46	81.7	38.5	6.8	0.0	2.5	0.0
H-82.....	McKinney Bros. & Miller, Woodbine..... 3600	89.23	36.22	66.7	31.4	9.2	1.3	2.0	0.0
Pfister 4897.....	Wilson-Rininger Corn Co., Sac City..... 3000	88.95	38.38	80.6	37.4	10.7	0.0	2.3	0.0
Iowa Hybrid 4249.....	Iowa State Hybrid Corn Co., Elkhart..... 1000	87.03	33.86	70.6	34.8	4.3	0.4	2.5	0.0
118M.....	W. O. McCurdy & Sons, Fremont..... 1100	85.11	35.77	80.0	43.0	6.3	0.0	2.4	0.0
	Average of all entries.....		45.09	82.8	30.3	8.5	0.4	2.5	0.1

*Experimental entries.

**Differences in yield between any two entries of less than 5.48 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

****Three hundred bushels produced in 1943.

TABLE 14. RESULTS FROM DISTRICT FIVE, REGULAR AND EXPERIMENTAL CLASS:
TEST PLOT LOCATED NEAR CLARION IN WRIGHT COUNTY.

Variety, name and address of entrant, and bushels produced in 1944			Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct. root stalk		Ear ht.	Dropped ears pct.
*Reid Nat'l Hyb. 115A.....	Reid National Corn Co., Anamosa.....	Exp. ***	*121.70	54.80	91.4	21.8	14.6	6.4	3.0	0.0
Iowa Hybrid 306.....	Iowa Corn & Small Grain Growers' Assn., Ames	Exp. ***	117.46	53.70	93.1	19.9	19.1	8.1	2.5	1.2
*4488 x 4489.....	Genetics Section, Ames.....	Exp. ****	*114.69	54.80	97.5	31.1	21.9	4.3	2.8	1.4
J-39.....	Jacobsen Hybrid Corn Co., Lake View.....	3600	114.53	54.09	90.3	22.4	27.4	3.7	3.0	0.9
H-82.....	McKinney Bros. & Miller, Woodbine.....	500	111.54	50.95	89.4	21.3	26.4	5.3	2.5	0.9
Iowa Hybrid 306.....	Malcolm H. Grieve, Pierson.....	3590	111.26	52.65	96.9	20.3	26.7	8.6	2.2	2.0
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames	Exp. ***	110.79	45.93	94.7	20.3	22.6	2.9	3.0	0.9
Farmers 439.....	Farmers Hybrid Seed Corn Co., Hampton.....	1100	110.36	52.33	94.4	20.0	28.8	7.7	2.8	1.8
*Iowa Hybrid 4425.....	Farm Crops and U.S.D.A., Ames.....	Exp. ***	*110.24	56.02	94.2	23.5	34.2	6.5	2.5	0.3
118M.....	W. O. McCurdy & Sons, Fremont.....	2500	109.95	46.52	94.2	28.6	17.4	5.3	3.0	0.0
Beeghly 150.....	Milford Beeghly, Pierson.....	Exp. ***	*109.61	63.18	92.5	18.2	54.1	2.7	2.7	0.0
*Iowa Hybrid 4397.....	Farm Crops and U.S.D.A., Ames.....	Comp.	109.19	51.57	91.4	23.2	29.8	5.5	3.0	1.2
Iowa Hybrid 4059.....	Iowa Agr. Exp. Assn., Ames.....	Exp. ***	*108.70	55.50	86.9	20.4	43.8	0.6	2.5	0.3
*Iowa Hybrid 4345.....	Farm Crops and U.S.D.A., Ames.....	12000	108.17	54.35	96.1	21.9	39.6	2.6	2.5	1.5
Pride D66.....	Twin City Seed Co., Minneapolis, Minn.....	Comp.	107.16	47.56	95.3	23.5	23.6	8.2	2.5	2.0
Iowa Hybrid 303.....	Iowa Agr. Exp. Assn., Ames.....	Exp. ***	*106.86	51.21	96.9	19.8	34.4	6.6	2.8	0.3
*C257.....	Clarke Hybrid Corn Co., Conrad.....	Exp. ***	*106.77	57.64	98.1	22.7	33.7	15.9	3.0	0.3
*C-9 Carlson.....	Carlson Hybrid Corn Co., Audubon.....	21500	106.61	51.32	95.3	25.9	34.1	3.2	3.0	1.5
Pioneer 339.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	4000	106.53	49.82	92.2	20.9	31.3	6.9	2.7	1.5
1942.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	Exp. ***	*106.45	45.92	96.3	28.1	23.5	4.2	3.0	0.7
*Iowealth LAQ.....	Michael Leonard Co., Sioux City.....	1500	105.58	45.04	95.6	28.6	24.1	3.2	3.0	0.9
ACE 395.....	Eliason Seed Sales, West Liberty.....	9000	105.33	52.18	96.4	23.5	36.9	5.5	2.8	1.4
Reid Nat'l Hyb. 118R.....	Reid National Corn Co., Anamosa.....	4000	104.82	56.38	90.0	17.9	48.8	4.9	2.5	0.9
Gurney Golden 112.....	Gurney Seed & Nursery Co., Yankton, S. D.....	1094	104.58	47.74	90.3	31.1	25.9	5.9	3.0	0.9
Turner S57.....	Turner Hybrid Seed Corn Co., Grand Junction.....	Exp. ***	*104.39	61.67	95.8	17.5	49.3	13.9	2.5	0.9
*Allee Hybrid 255-A-A.....	Geo. M. Allee, Newell.....	55	103.97	55.03	95.3	17.4	44.3	9.0	2.7	0.6
432A.....	Emil J. Kruger, Bellevue.....	10000	103.87	52.63	96.9	24.2	43.3	2.0	2.3	0.6
G-16.....	Funk Bros. Seed Co., Belle Plaine.....	Exp. ***	*103.72	55.14	94.4	21.8	48.8	2.4	2.0	0.3
*GOLDLINE 333.....	Bruns Seed Company, Davenport.....	Exp. ***	*103.36	54.59	94.4	20.1	50.6	1.5	2.5	0.0
*Iowa Hybrid 4411.....	Farm Crops and U.S.D.A., Ames.....	Exp. ***	*103.21	48.30	96.1	23.8	33.0	6.7	2.8	0.9
*Iowealth QAQ.....	Michael Leonard Co., Sioux City.....	Exp. ***	*102.24	55.67	98.1	27.2	36.5	14.5	2.3	0.3
*Mullins J 50.....	Mullins Hybrid Corn Co., Britt.....	Exp. ***	*102.04	53.16	93.7	17.6	44.5	8.5	2.6	2.1
*Feldcorn 43-8.....	Feldcorn Co., Breda.....	350	101.63	48.31	94.4	22.0	41.5	2.1	2.5	0.3
McAllister Hybrid 9.....	H. H. McAllister & Son, Mt. Union.....	12660	101.61	47.17	94.2	27.7	33.9	4.1	2.8	0.3
Cornhusker 148.....	Cornhusker Hybrid Co., Fremont, Nebr.....	Exp. ***	*101.44	44.52	94.4	28.1	18.5	15.0	2.8	1.5
*Tomahawk 60.....	Thompson Hybrid Corn Co., Belmond.....	Comp. ***	101.37	47.83	95.8	23.0	37.7	4.6	2.7	1.2
Illinois Hybrid 751.....	Iowa Agr. Exp. Assn., Ames.....	500	101.33	49.76	97.2	17.8	34.0	15.1	3.0	0.0
Pioneer 322.....	Iowa Corn & Small Grain Growers' Assn., Ames	500	101.02	46.90	94.2	28.1	30.1	8.0	3.0	1.5
Pfister 390.....	Mummert Seed Co., Astoria, Ill.....	630	100.99	45.69	95.8	22.7	36.2	3.5	2.7	1.2
Iowa Hybrid 3553.....	Roy Fanselow, Dows.....									

Iowa Hybrid 4298.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.60	55.40	89.2	21.9	51.7	5.0	2.7	0.3
Iowa Hybrid 4249.....	Elmer Narland, Radcliffe.....	170	100.59	54.73	93.9	20.9	53.0	3.3	2.3	0.6
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	Comp.	100.43	50.16	96.4	20.9	48.1	0.9	3.0	1.2
Iowa Hybrid 942.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.27	52.22	95.0	16.2	43.2	11.9	2.6	3.2
Mellowdent No. 90.....	J. N. Horlacker & Son, Storm Lake.....	1000	100.15	57.17	92.5	19.9	53.8	7.8	2.7	0.3
Pioneer 341.....	Pioneer Hi-Bred Corn Co., Des Moines.....	33670	99.93	54.76	97.8	21.5	54.8	2.3	2.5	0.0
Mellowdent No. 94.....	Louis Quirin, Alta.....	687	99.89	52.59	94.2	23.2	50.2	2.4	2.5	0.3
129-1.....	Henry Field Hybrid Corn Co., Shenandoah.....	3000	99.50	44.82	91.4	27.7	30.7	7.0	2.8	0.6
G-29.....	Funk Bros. Seed Co., Bloomington, Ill.....	35000	99.08	51.67	95.6	24.5	47.7	3.8	2.2	0.6
Turner S55.....	Turner Hybrid Seed Corn Co., Grand Junction.....	3483	98.45	44.04	95.3	30.6	30.0	6.4	3.0	0.0
Pioneer 333.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	7500	98.19	55.24	95.3	23.0	54.5	5.3	3.0	0.0
Pfister 4897.....	Wilson-Rininger Corn Co., Sac City.....	3000	98.00	54.31	95.0	22.6	55.6	3.2	2.7	0.3
Iowa Hybrid 939.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	97.58	53.41	95.8	18.3	50.7	9.9	2.5	1.2
*Hamann Hybrid H45.....	Herman Mamann, Anthon.....	Exp.	* 97.30	55.88	95.3	20.9	61.5	2.0	2.7	0.3
100R.....	Henry Field Hybrid Corn Co., Shenandoah.....	2000	* 97.23	53.02	93.9	19.6	52.7	7.1	2.5	0.9
*Tomahawk 66.....	Thompson Hybrid Corn Co., Belmond.....	Exp.	* 97.17	49.69	95.3	30.1	42.6	5.3	2.8	0.6
Iowa Hybrid 4249.....	Iowa State Hybrid Corn Co., Elkhart.....	1000	96.96	53.61	96.1	22.9	56.1	3.2	2.8	0.0
Maygold 99A.....	Earl E. May Seed Co., Shenandoah.....	15000	96.47	55.79	95.3	20.1	56.0	9.3	2.5	0.3
Indiana Hybrid 416B.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	95.91	50.76	96.7	22.8	54.9	1.4	2.5	0.6
Iowa Hybrid 4295.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	95.62	56.65	93.9	21.2	53.3	14.2	2.7	0.0
Iowa Hybrid 4297.....	O. W. Johnson & Son, LeGrand.....	2200	95.60	50.63	94.4	20.1	57.4	0.9	2.5	1.2
Cornelius C59.....	Chas. J. Cornelius, Bellevue.....	150	95.50	52.59	88.3	23.2	56.9	2.8	2.5	0.3
Indiana Hybrid 608C.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	95.06	47.32	95.3	26.8	42.6	7.0	2.8	0.9
Pfister 299.....	J. M. Hunt & Son, Ackley.....	848	94.93	55.36	95.8	23.2	58.8	6.4	2.5	0.0
Iowa Hybrid 4249.....	Eden Valley Hybrid, Vinton.....	450	94.66	54.71	95.3	22.5	63.9	1.2	3.0	0.3
Pfister 1897.....	Orcutt Hybrid Corn Co., Monroe.....	5000	93.81	49.92	95.3	26.3	54.2	2.0	3.0	0.3
Iowa Hybrid 4316.....	John Sand, Marcus.....	300	93.38	50.83	92.5	19.6	55.9	6.9	2.2	0.3
61.....	Epley Brothers, Shell Rock.....	50	92.26	55.36	93.9	21.2	68.9	1.8	3.0	0.9
T-50.....	Glenn Thurston, Garwin.....	80	91.11	46.50	96.7	29.6	48.3	4.9	2.3	0.0
DeKalb 639.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	91.04	48.20	98.3	23.1	50.6	9.3	3.0	1.4
*C246.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	* 90.60	46.33	96.7	22.7	49.4	8.6	2.7	0.6
Fed. 222.....	A. G. Thurman, Cedar Rapids.....	2200	88.16	54.30	90.8	19.8	65.4	11.3	2.7	0.6
*4491 x 4492.....	Genetics Section, Ames.....	Exp.	* 88.02	50.59	93.1	36.2	57.0	3.6	3.0	0.0
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	87.66	52.83	97.2	19.5	69.1	6.0	2.7	1.7
*W-215.....	Wilson Hybrids, Harlan.....	Exp.	* 87.48	53.71	90.6	22.8	68.7	6.4	2.5	0.0
*C-44.....	Gilbert Cornelius, Bellevue.....	Exp.	* 86.89	49.98	90.6	23.5	66.0	3.4	2.7	1.5
22-H.....	Roland Holden, Williamsburg.....	1400	85.74	47.14	96.9	24.9	60.2	5.7	3.0	0.9
Webster 436.....	Webster Co. Seed Imp. Assn., Fort Dodge.....	600	84.20	47.97	90.0	24.2	63.3	7.1	3.0	0.3
Pfister 280.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	74.68	45.13	90.0	31.1	74.7	2.5	2.5	0.0
Funk G-114.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	72.96	41.02	92.2	26.3	75.0	1.2	2.3	1.2
Pfister 260.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	72.31	38.99	96.1	28.6	67.6	5.2	2.8	0.0
Average of all entries.....				51.45	94.3	23.2	44.7	5.7	2.7	0.7

*Experimental Entries.

**Differences in yield between any two entries of less than 6.09 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

****Three hundred bushels produced in 1943.

TABLE 15. RESULTS FROM DISTRICT SIX, REGULAR AND EXPERIMENTAL CLASS:
TEST PLOT LOCATED NEAR VINTON IN BENTON COUNTY.

Variety, name and address of entrant, and bushels produced in 1944				Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct. root stalk		Ear ht.	Dropped ears pct.
*C-9 Carlson.....	Carlson Hybrid Corn Co., Audubon.....	Exp.	*110.73	100.88	91.1	24.0	1.5	2.7	3.8	2.1	
*Iowa Hybrid 4397.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*106.80	99.75	88.9	20.8	11.6	5.0	3.0	0.3	
*Reid Nat'l Hyb. 115A.....	Reid National Corn Co., Anamosa.....	Exp.	*106.74	101.52	95.6	21.4	3.5	14.2	4.0	2.3	
Pioneer 341.....	Pioneer Hi-Bred Corn Co., Des Moines.....	33670	105.90	102.81	91.4	21.5	10.0	12.2	3.0	0.6	
Pride D66.....	Twin City Seed Co., Minneapolis, Minn.....	12000	105.31	98.32	86.4	21.6	12.5	4.5	3.2	1.9	
*Iowealth LAQ.....	Michael Leonard Co., Sioux City.....	Exp.	*105.06	99.43	92.5	23.3	4.8	12.6	3.7	2.1	
*Hamann Hybrid H45.....	Herman Hamann, Anthon.....	Exp.	*104.98	95.22	90.3	19.7	9.2	7.1	3.0	0.0	
Pioneer 339.....	Garst & Thomas Hybrid Corn Co., Coon Rapids..	21500	104.90	98.10	89.4	22.7	9.3	7.1	3.5	2.5	
*Iowa Hybrid 4411.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*104.50	90.60	82.3	21.6	6.1	2.4	3.0	2.4	
T-50.....	Glenn Thurston, Garwin.....	80	104.22	99.09	91.4	22.4	14.3	5.8	3.0	1.8	
*Iowa Hybrid 4345.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*104.12	94.20	80.8	22.1	6.9	7.2	3.0	1.7	
*Tomahawk 66.....	Thompson Hybrid Corn Co., Belmond.....	Exp.	*104.00	98.65	88.9	22.5	6.3	13.4	3.5	2.5	
Pfister 4897.....	Wilson-Rininger Corn Co., Sac City.....	3000	103.65	101.45	90.7	21.4	14.7	11.4	3.4	0.7	
Iowa Hybrid 4297.....	O. W. Johnson & Son, LeGrand.....	2200	103.58	95.88	88.1	20.8	13.6	6.0	3.3	0.3	
Cornelius C 59.....	Chas. J. Cornelius, Bellevue.....	150	103.42	96.89	92.2	23.0	9.0	9.0	3.2	3.0	
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	102.86	95.14	91.7	23.8	5.8	10.6	3.5	3.0	
Turner S57.....	Turner Hybrid Seed Corn Co., Grand Junction..	1094	102.76	91.59	90.6	27.2	3.4	5.8	4.0	1.2	
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	102.71	97.77	93.9	22.7	12.4	9.8	3.7	0.9	
*C246.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*102.59	98.11	91.4	20.2	11.6	14.0	4.0	0.6	
Beeghly 150.....	Milford Beeghly, Pierson.....	2500	102.58	93.03	87.5	22.1	7.9	8.9	3.0	0.6	
Mellowdent No. 94.....	Louis Quirin, Alta.....	687	102.57	98.47	90.6	22.5	16.9	7.1	3.5	0.3	
Indiana Hybrid 416B.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	102.41	97.64	92.8	22.5	13.2	9.6	3.2	1.5	
Pfister 1897.....	Orcutt Hybrid Corn Co., Monroe.....	5000	101.92	96.99	91.4	23.8	16.7	5.5	4.0	0.6	
Iowa Hybrid 306.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	101.88	96.51	88.1	22.4	11.0	9.8	3.8	6.3	
G-29.....	Funk Bros. Seed Co., Bloomington, Ill.....	35000	101.83	92.89	79.4	22.4	12.6	5.2	3.0	1.8	
Maygold 99A.....	Earl E. May Seed Co., Shenandoah.....	15000	101.82	93.82	85.6	20.8	12.7	8.4	3.5	0.7	
Reid Nat'l Hyb. 118R.....	Reid National Corn Co., Anamosa.....	9000	101.74	98.55	92.8	22.2	7.8	6.3	3.7	0.9	
Pioneer 333.....	Garst & Thomas Hybrid Corn Co., Coon Rapids..	7500	101.67	96.31	93.9	23.2	13.9	8.6	4.0	0.6	
*Iowa Hybrid 4425.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*101.62	93.80	82.2	23.1	10.1	8.1	3.5	3.4	
Funk G-114.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	101.61	92.00	88.9	22.4	11.6	5.9	3.2	0.9	
Cornhusker 148.....	Cornhusker Hybrid Co., Fremont, Nebr.....	12660	101.42	91.77	93.9	26.3	7.4	6.2	3.5	1.5	
Iowa Hybrid 306.....	Malcolm H. Grieve, Pierson.....	500	101.42	98.02	93.9	22.7	12.4	12.1	3.5	4.1	
Illinois Hybrid 751.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	101.39	90.48	86.1	23.9	7.4	7.1	3.3	1.0	
100R.....	Henry Field Hybrid Corn Co., Shenandoah.....	2000	101.20	94.83	85.0	20.4	14.4	9.8	3.0	1.3	
Mellowdent No. 90.....	J. N. Horlacher & Son, Storm Lake.....	1000	101.14	94.31	91.1	21.9	14.3	7.6	3.2	1.8	
McAllister Hybrid 9.....	H. H. McAllister & Son, Mt. Union.....	350	101.10	97.43	90.3	22.0	19.7	6.5	3.7	1.9	
Gurney Golden 112.....	Gurney Seed & Nursery Co., Yankton, S. D.....	4000	100.84	96.05	89.4	21.0	19.6	6.8	3.0	0.6	
Pfister 390.....	Mummert Seed Co., Astoria, Ill.....	500	100.75	96.88	94.4	23.4	11.2	14.1	3.8	0.9	
Farmers 439.....	Farmers Hybrid Seed Corn Co., Hampton.....	3590	100.55	92.54	89.7	22.6	9.3	10.2	3.8	4.0	
H-82.....	McKinney Bros. & Miller, Woodbine.....	3600	100.33	91.93	86.4	23.1	10.9	7.4	3.8	5.1	

Pfister 260.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	100.26	93.13	85.6	23.0	13.6	8.4	3.5	0.3
Iowa Hybrid 4316.....	John Sand, Marcus.....	300	100.25	94.54	89.7	21.0	15.5	9.9	3.3	1.9
Iowa Hybrid 4059.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.08	91.18	84.4	23.1	12.2	6.3	3.3	4.0
Iowa Hybrid 303.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	99.86	90.63	85.8	22.5	8.4	10.7	3.7	3.2
Iowa Hybrid 4295.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	99.86	95.82	89.9	21.7	13.3	14.2	3.2	1.7
*W-215.....	Wilson Hybrids, Harlan.....	Exp.	* 99.84	94.13	86.4	22.1	14.5	10.9	3.3	0.3
Turner S55.....	Turner Hybrid Seed Corn Co., Grand Junction..	3483	99.72	85.59	90.8	26.3	4.0	6.7	3.8	2.1
Pfister 280.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	99.43	95.98	92.5	23.0	21.0	6.9	3.5	0.6
Fed. 222.....	A. G. Thurman, Cedar Rapids.....	2200	99.42	96.43	88.6	20.8	19.1	11.0	3.3	2.2
Iowa Hybrid 4249.....	Iowa State Hybrid Corn Co., Elkhart.....	1000	99.18	95.60	88.9	22.2	25.9	3.1	3.2	0.0
61.....	Epley Brothers, Shell Rock.....	50	99.00	92.89	84.4	22.3	17.4	8.2	3.3	0.3
*4491 x 4492.....	Genetics Section, Ames.....	Exp.	* 98.93	89.51	90.8	29.5	3.7	10.4	3.2	0.6
J-39.....	Jacobsen Hybrid Corn Co., Lake View.....	****	98.78	84.45	80.0	24.1	7.3	4.2	3.5	4.5
129-1.....	Henry Field Hybrid Corn Co., Shenandoah.....	3000	98.75	87.73	84.3	24.9	6.3	10.3	3.6	0.8
ACE 395.....	Eliason Seed Sales, West Liberty.....	1500	98.56	86.94	93.9	26.3	5.6	8.9	4.0	1.2
Iowa Hybrid 4249.....	Eden Valley Hybrid, Vinton.....	450	98.41	98.27	87.8	21.3	21.8	13.3	3.2	1.0
*C257.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	* 98.11	96.10	93.3	21.4	16.4	15.5	3.8	3.6
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	98.02	90.35	86.1	21.4	13.6	11.3	3.3	2.3
118M.....	W. O. McCurdy & Sons, Fremont.....	1100	97.89	85.65	89.4	26.3	9.0	5.3	3.8	1.6
Iowa Hybrid 4249.....	Elmer Narland, Radcliffe.....	170	97.83	91.55	81.1	22.7	17.1	8.9	3.3	1.4
Pioneer 322.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	97.80	93.62	87.5	20.4	12.1	19.4	3.3	0.6
*GOLDLINE 333.....	Bruns Seed Company, Davenport.....	Exp.	* 97.63	92.78	86.1	23.4	20.3	7.1	3.0	1.6
*4488 x 4489.....	Genetics Section, Ames.....	Exp.	* 97.17	86.85	95.3	28.1	2.0	13.4	3.8	2.9
1942.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	4000	97.16	91.14	88.6	20.4	19.8	8.2	3.3	5.3
Webster 436.....	Webster Co. Seed Imp. Assn., Fort Dodge.....	600	97.01	92.59	87.8	24.1	15.5	12.7	3.8	1.3
Pfister 299.....	J. M. Hunt & Son, Ackley.....	848	96.74	97.63	90.3	23.1	23.4	13.2	3.5	1.2
*Iowealth QAQ.....	Michael Leonard Co., Sioux City.....	Exp.	* 96.07	89.67	86.4	22.0	5.5	22.8	4.2	2.3
*Mullins J 50.....	Mullins Hybrid Corn Co., Britt.....	Exp.	* 95.82	103.40	94.4	22.8	15.0	32.1	3.3	1.2
*C 44.....	Gilbert Cornelius, Bellevue.....	Exp.	* 95.67	90.72	88.6	23.8	22.6	6.9	3.2	0.9
Iowa Hybrid 3553.....	Roy Fanselow, Dows.....	630	95.37	93.49	94.4	21.4	27.7	7.7	3.0	3.5
*Feldcorn 43-8.....	Feldcorn Co., Breda.....	Exp.	* 95.19	86.16	84.7	19.9	17.7	10.2	4.0	2.3
DeKalb 639.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	95.19	92.06	87.2	24.3	14.3	17.5	3.7	1.3
G-16.....	Funk Bros. Seed Co., Belle Plaine.....	10000	95.14	93.31	91.1	23.8	20.7	13.1	3.0	2.1
Iowa Hybrid 939.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	95.09	91.78	87.8	22.2	11.4	19.0	3.5	10.1
432A.....	Emil J. Kruger, Bellevue.....	55	94.64	99.30	94.7	19.9	31.7	15.5	3.2	1.8
22-H.....	Roland Holden, Williamsburg.....	1400	94.50	96.24	89.4	22.1	26.1	15.2	4.0	1.6
Iowa Hybrid 4298.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	94.34	97.26	90.6	21.7	29.1	16.6	3.3	2.8
Indiana Hybrid 608C.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	92.42	84.67	88.3	28.1	17.3	6.9	3.7	3.8
*Tomahawk 60.....	Thompson Hybrid Corn Co., Belmond.....	Exp.	* 91.51	94.68	90.0	23.3	13.0	32.4	4.0	2.2
Iowa Hybrid 942.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	91.44	93.03	91.4	21.9	23.4	19.5	4.0	7.0
*Allee Hybrid 255-A-A.....	Geo. M. Allee, Newell.....	Exp.	* 91.34	92.40	96.1	21.3	33.5	11.6	3.0	1.2
	Average of all entries.....			94.23	89.1	22.7	13.5	10.3	3.5	2.0

*Experimental entries.

**Differences in yield between any two entries of less than 7.05 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

****Three hundred bushels produced in 1943.

TABLE 16. RESULTS FROM DISTRICT SEVEN, REGULAR AND EXPERIMENTAL CLASS:
TEST PLOT LOCATED NEAR WESTSIDE IN CRAWFORD COUNTY.

Variety, name and address of entrant, and bushels produced in 1944		Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct. root stalk		Ear ht.	Dropped ears pct.
*C 66.....	Gilbert Cornelius, Bellevue.....	Exp.	*109.85	93.82					
*Reid Nat'l Hyb. 126T.....	Reid National Corn Co., Anamosa.....	Exp.	*108.94	92.49	85.0	18.4	8.8	2.6	3.3
*Iowearth L25.....	Michael Leonard Co., Sioux City.....	Exp.	*107.65	88.47	86.1	22.6	3.9	2.9	4.0
U. S. Hybrid 13.....	Marion Coppock, Ankeny.....	350	106.89	90.25	87.5	19.1	4.1	3.2	3.8
118-H.....	Roland Holden, Williamsburg.....	600	105.71	91.16	81.7	20.5	6.5	4.4	3.8
129L.....	Henry Field Hybrid Corn Co., Shenandoah.....	2500	105.40	86.51	84.0	19.3	8.7	1.6	3.8
Ohio Hybrid C92.....	J. H. Isenhardt, Batavia.....	1300	105.37	85.50	84.4	22.2	5.6	0.0	3.8
Pioneer 339.....	Pioneer Hi-Bred Corn Co., Des Moines.....	4771	105.36	90.35	83.3	20.3	15.7	0.0	3.5
Iowa Hybrid 4060.....	Harold Plumb, Harlan.....	600	105.18	86.32	80.3	19.8	8.0	1.4	3.5
Ohio Hybrid C92.....	Iowa State Hybrid Corn Co., Elkhart.....	1000	104.35	87.55	87.2	22.5	9.9	1.9	4.0
Iowa Hybrid 306.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	104.09	85.31	77.5	20.1	9.3	1.8	3.3
Pfister 164.....	Walden Farm, Keota.....	5000	104.04	85.88	81.1	21.4	8.6	2.4	3.8
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	104.02	92.34	89.4	17.7	24.8	1.6	3.3
Dockendorff 13.....	Wm. Dockendorff & Sons, Danville.....	675	103.59	87.59	84.7	22.2	10.2	3.0	4.0
987M.....	W. O. McCurdy & Sons, Fremont.....	5200	103.55	82.88	82.8	20.1	6.0	2.4	3.5
*810.....	W. O. McCurdy & Sons, Fremont.....	Exp.	*103.44	83.85	84.2	19.6	9.2	1.0	3.8
U. S. Hybrid 13.....	B. C. Hudson, Knoxville.....	500	103.41	85.60	82.3	22.3	7.3	3.6	4.0
Ohio Hybrid C92.....	Blackburn Hybrid Seed Corn Co., Grand Junction	500	103.13	84.79	85.8	22.0	9.4	1.6	3.8
*Tomahawk 86.....	Thompson Hybrid Corn Co., Belmond.....	Exp.	*103.09	91.46	79.7	24.0	15.7	4.2	3.5
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	102.81	82.45	81.1	21.5	7.2	1.0	3.2
*Tomahawk 88.....	Thompson Hybrid Corn Co., Belmond.....	Exp.	*102.69	88.62	81.1	22.8	12.7	5.1	3.7
*W-205.....	Wilson's Hybrids, Harlan.....	Exp.	*102.30	86.43	84.4	21.3	10.9	5.9	3.7
Iowa Hybrid 4320.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*102.27	87.43	83.6	22.1	8.6	8.6	4.0
*Mullins J 48.....	Mullins Hybrid Corn Co., Britt.....	Exp.	*102.07	82.54	85.8	22.8	5.2	3.9	3.8
Pioneer 304.....	Pioneer Hi-Bred Corn Co., Des Moines.....	1596	101.99	88.68	85.8	23.1	14.2	5.5	3.3
*C820.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*101.96	84.33	79.7	24.4	5.9	4.5	3.2
*Maygold Exp. 50.....	Earl E. May Seed Co., Shenandoah.....	Exp.	*101.76	80.20	80.8	22.6	5.2	1.0	3.8
U. S. Hybrid 13.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	101.55	86.14	81.9	22.9	11.2	5.4	4.3
H-99.....	McKinney Bros. & Miller, Woodbine.....	4000	101.54	87.77	83.1	22.4	5.0	14.1	3.8
Turner S53.....	Turner Hybrid Seed Corn Co., Grand Junction.....	1644	101.52	82.86	82.8	22.3	9.1	2.7	3.8
*Iowearth CL.....	Michael Leonard Co., Sioux City.....	Exp.	*101.37	79.57	72.8	24.4	3.8	0.4	3.2
124M.....	W. O. McCurdy & Sons, Fremont.....	5000	101.09	83.80	81.4	21.5	9.6	4.8	3.7
*4494 x 4493.....	Genetics Section, Ames.....	Exp.	*101.07	85.76	86.7	25.1	10.6	4.5	3.3
Pioneer 339.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	21500	101.06	86.91	80.8	22.0	18.6	1.4	3.7
117M.....	W. O. McCurdy & Sons, Fremont.....	1250	101.03	78.49	78.1	22.9	2.5	2.1	4.0
Pioneer 336.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	15709	100.85	83.37	87.2	22.6	15.6	7.0	3.8
*Iowa Hybrid 4385.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*100.81	78.80	84.2	22.5	5.0	1.3	3.8
McAllister Hybrid 73.....	H. H. McAllister & Son, Mt. Union.....	225	100.57	81.17	88.9	20.0	9.7	4.4	3.7
ACE 193.....	Eliason Seed Sales, West Liberty.....	1850	100.55	85.66	86.4	23.3	8.0	9.3	4.2

G-37.....	Funk Bros. Seed Co., Belle Plaine.....	7500	100.47	76.92	75.3	19.3	5.8	0.9	3.6	2.7
*Iowa Hybrid 4423.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*100.22	80.73	80.3	22.0	5.5	6.2	3.5	1.0
Ohio Hybrid C92.....	Iowa-Missouri Hybrid Corn Co., Keosauqua.....	400	100.15	86.54	82.2	23.4	15.9	5.1	3.7	0.3
Iowa Hybrid 939.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.05	86.93	80.8	19.7	19.6	5.8	3.2	1.7
Pfister 390.....	Mummert Seed Company, Astoria, Ill.....	500	99.90	81.08	76.0	19.8	14.5	1.3	3.0	0.9
H-97.....	McKinney Bros. & Miller, Woodbine.....	1500	99.54	77.40	79.7	23.7	6.3	0.0	3.8	0.4
*C-15 Carlson.....	Carlson Hybrid Corn Co., Audubon.....	Exp.	* 99.17	81.34	85.6	24.6	6.2	6.8	3.8	1.0
*EX 661.....	Henry Field Hybrid Corn Co., Shenandoah.....	Exp.	* 99.10	78.02	80.0	24.0	4.9	3.1	4.0	1.0
Cornhusker 148.....	Cornhusker Hybrid Co., Fremont, Nebr.....	12660	99.09	77.18	78.1	23.1	6.1	1.8	3.3	0.4
C36.....	Clarke Hybrid Corn Co., Conrad.....	1100	98.93	80.01	81.7	25.6	8.5	1.7	3.8	1.0
Pfister 1897.....	Oreutt Hybrid Corn Co., Monroe.....	5000	98.72	83.83	81.7	23.1	18.7	2.0	3.3	0.0
218-H.....	Roland Holden, Williamsburg.....	350	98.45	79.20	78.6	23.1	12.4	0.7	3.5	0.7
Thompson 82.....	Thompson Hybrid Corn Co., Belmont.....	1800	98.37	77.58	83.3	23.1	8.7	1.7	3.8	1.0
Pioneer 300.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	98.05	85.70	83.9	22.5	20.9	5.6	3.7	0.3
Fed. 169.....	A. G. Thurman, Cedar Rapids.....	600	98.01	76.00	83.6	23.1	5.0	3.3	3.8	1.7
Farmers 555.....	Farmers Hybrid Seed Corn Co., Hampton.....	2319	97.94	80.20	76.9	23.1	14.1	2.5	3.7	0.0
G-94.....	Funk Bros. Seed Co., Belle Plaine.....	5000	97.91	78.66	80.0	23.7	7.9	5.4	3.6	0.0
1904.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	1200	97.66	77.29	77.2	24.0	9.0	2.2	3.3	0.4
Iowaleath 29A.....	Michael Leonard Co., Sioux City.....	8000	97.42	79.50	79.4	21.8	15.0	3.2	3.5	0.4
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	97.40	79.48	65.8	17.3	21.5	1.3	3.0	1.3
Pioneer 334.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	97.38	82.98	88.3	21.7	23.9	0.6	3.5	0.3
Pfister 280.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	97.09	82.34	82.5	21.4	20.9	3.7	3.3	0.3
*Iowa Hybrid 4410.....	Farm Crops and U.S.D.A., Ames.....	Exp.	* 96.90	73.08	66.9	22.4	5.0	2.5	3.2	0.8
Maygold 49.....	Earl E. May Seed Co., Shenandoah.....	30000	96.70	79.23	83.9	24.4	10.9	6.0	3.7	0.3
129-1.....	Henry Field Hybrid Corn Co., Shenandoah.....	3000	96.64	75.15	75.0	21.8	11.1	1.5	3.5	0.7
Cornhusker 50.....	Cornhusker Hybrid Co., Fremont, Nebr.....	2315	96.54	75.36	79.7	23.2	9.8	2.1	4.2	0.4
DeKalb 639.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	96.45	76.90	72.3	23.0	7.4	7.8	3.0	0.0
Turner T60.....	Turner Hybrid Seed Corn Co., Grand Junction..	1212	96.19	74.33	76.9	21.9	11.2	1.4	3.3	0.0
Farmers 509.....	Farmers Hybrid Seed Corn Co., Hampton.....	911	96.08	79.43	81.9	23.6	12.2	7.1	4.2	1.7
*Iowa Hybrid 4435.....	Farm Crops and U.S.D.A., Ames.....	Exp.	* 95.88	70.70	71.7	19.6	7.0	2.7	3.2	0.0
U. S. Hybrid 13.....	Kilpatrick Hybrid Corn Co., Harlan.....	1000	95.88	75.82	77.2	25.2	2.9	9.0	4.2	1.4
U. S. Hybrid 35.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	95.42	77.07	83.3	26.1	9.7	5.3	4.0	0.0
G-169.....	Funk Bros. Seed Co., Belle Plaine.....	20000	95.33	70.65	62.3	21.4	6.4	1.6	3.6	2.7
U. S. Hybrid 13.....	Chester Runner, Gilman.....	1000	95.18	76.67	76.0	23.4	11.4	5.3	3.8	3.1
*C321.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	* 95.16	76.13	81.9	24.0	11.2	5.1	4.0	0.3
Iowa Hybrid 4020.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	94.88	70.10	71.4	20.5	8.6	2.0	3.5	0.0
Pioneer 336.....	Pioneer Hi-Bred Corn Co., Des Moines.....	10636	94.58	80.19	85.3	25.2	19.2	4.6	3.5	0.3
Pfister 165.....	Missouri Pfister Growers Inc., Princeton, Mo...	85	93.79	70.97	74.2	21.7	13.1	0.8	4.0	0.0
*4497 x 4496.....	Genetics Section, Ames.....	Exp.	* 93.63	73.47	77.8	28.3	9.3	1.8	3.5	0.7
Reid Nat'l Hyb. 129.....	Reid National Corn Co., Anamosa.....	1000	93.55	74.54	75.0	24.3	14.8	3.0	3.8	0.4
*Reid Nat'l Hyb. 126R.....	Reid National Corn Co., Anamosa.....	Exp.	* 93.51	69.33	65.0	20.8	7.2	5.1	3.6	1.0
1908.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	1500	88.69	67.05	73.3	25.2	13.2	4.6	3.8	0.0
	Average of all entries.....			81.63	80.5	22.3	10.3	3.4	3.7	0.8

*Experimental entries.

**Differences in yield between any two entries of less than 7.80 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 17. RESULTS FROM DISTRICT EIGHT, REGULAR AND EXPERIMENTAL CLASS:
TEST PLOT LOCATED NEAR AMES IN STORY COUNTY.

Variety, name and address of entrant, and bushels produced in 1944			Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct. root stalk		Ear ht.	Dropped ears pct.
*4494 x 4493.....	Genetics Section, Ames.....	Exp.	*107.87	99.56	87.2	20.0	1.6	3.5	3.0	0.6
*Tomahawk 88.....	Thompson Hybrid Corn Co., Belmond.....	Exp.	*106.30	97.28	90.8	19.8	2.8	3.4	3.0	0.6
*C 66.....	Gilbert Cornelius, Bellevue.....	Exp.	*106.13	92.94	88.1	17.2	2.2	0.0	3.0	0.0
Ohio Hybrid C92.....	J. H. Isenhardt, Batavia.....	1300	105.78	95.60	88.3	18.7	5.4	0.9	3.0	0.0
*4497 x 4496.....	Genetics Section, Ames.....	Exp.	*105.38	95.77	90.3	20.7	4.4	0.7	3.0	0.7
Pioneer 339.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	21500	104.73	92.70	84.2	18.2	4.3	0.7	3.0	0.0
*Iowa Hybrid 4320.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*104.63	93.06	85.3	19.7	1.3	2.3	3.0	1.3
*Reid Nat'l Hyb. 126T.....	Reid National Corn Co., Anamosa.....	Exp.	*104.56	92.86	80.0	19.4	1.7	2.5	3.0	0.4
Pioneer 339.....	Pioneer Hi-Bred Corn Co., Des Moines.....	4771	104.49	93.24	88.0	18.7	4.9	1.1	3.0	0.0
Pioneer 336.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	15709	104.25	93.65	86.1	19.1	5.2	1.6	3.0	0.7
118-H.....	Roland Holden, Williamsburg.....	600	104.12	92.38	92.5	18.4	5.1	0.9	3.0	0.0
McAllister Hybrid 73.....	H. H. McAllister & Son, Mt. Union.....	225	104.11	90.88	88.1	16.4	5.4	0.3	2.8	0.0
Pioneer 304.....	Pioneer Hi-Bred Corn Co., Des Moines.....	1596	104.11	94.49	91.4	21.8	3.0	2.7	3.0	0.3
U. S. Hybrid 13.....	B. C. Hudson, Knoxville.....	500	103.43	92.53	81.7	18.8	4.1	3.4	3.0	1.0
129L.....	Henry Field Hybrid Corn Co., Shenandoah.....	2500	103.31	88.66	83.0	16.9	2.4	1.2	3.0	0.0
Ohio Hybrid C92.....	Iowa-Missouri Hybrid Corn Co., Keosauqua.....	400	103.24	94.33	91.7	19.4	9.1	1.8	3.0	0.3
*EX 661.....	Henry Field Hybrid Corn Co., Shenandoah.....	Exp.	*103.10	88.78	83.1	19.4	1.0	0.3	3.0	0.7
C36.....	Clarke Hybrid Corn Co., Conrad.....	1100	103.04	91.13	88.3	20.1	3.8	1.3	3.0	0.3
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	102.73	93.00	82.2	17.6	11.2	1.0	2.8	0.3
Pioneer 336.....	Pioneer Hi-Bred Corn Co., Des Moines.....	10636	102.57	90.43	88.3	19.2	4.5	1.9	3.0	0.0
Farmers 555.....	Farmers Hybrid Seed Corn Co., Hampton.....	2319	102.39	89.03	82.5	18.7	3.7	1.4	3.0	0.0
987M.....	W. O. McCurdy & Sons, Fremont.....	5200	102.38	88.58	82.2	18.9	3.7	0.3	3.0	0.0
*Mullins J 48.....	Mullins Hybrid Corn Co., Britt.....	Exp.	*102.36	89.44	85.8	18.9	3.9	1.6	3.0	0.3
G-37.....	Funk Bros. Seed Co., Belle Plaine.....	7500	102.30	86.47	82.2	16.9	0.3	2.4	3.0	0.3
Ohio Hybrid C92.....	Iowa State Hybrid Corn Co., Elkhart.....	1000	102.22	91.55	90.0	18.2	9.6	0.9	3.0	0.3
H-99.....	McKinney Bros. & Miller, Woodbine.....	4000	102.13	89.30	78.6	19.8	2.5	2.1	3.0	1.1
*Iowa Hybrid L 25.....	Michael Leonard Co., Sioux City.....	Exp.	*101.99	89.14	88.7	17.5	3.0	4.5	3.0	0.8
Ohio Hybrid C92.....	Blackburn Hybrid Seed Corn Co., Grand Junction.....	500	101.72	87.49	86.7	18.9	3.5	0.6	3.0	0.0
Pfister 164.....	Walden Farm, Keota.....	5000	101.56	88.43	82.2	18.7	5.1	1.0	2.8	1.0
*C321.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*101.40	89.63	86.4	20.0	4.5	2.9	3.0	0.6
124M.....	W. O. McCurdy & Sons, Fremont.....	5000	100.74	90.03	87.2	18.7	8.3	3.2	3.0	1.0
Cornhusker 148.....	Cornhusker Hybrid Co., Fremont, Nebr.....	12660	100.71	88.99	84.2	19.1	7.6	2.0	3.0	0.3
ACE 193.....	Eliason Seed Sales, West Liberty.....	1850	100.71	88.33	84.2	19.5	2.0	5.9	3.0	0.3
*Iowa Hybrid 4385.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*100.65	84.73	78.3	16.8	3.9	1.1	3.0	0.0
U. S. Hybrid 13.....	Marion Coppock, Ankeny.....	350	100.62	87.70	81.1	19.9	1.7	4.1	3.0	2.1
H-97.....	McKinney Bros. & Miller, Woodbine.....	1500	100.53	86.33	83.0	17.8	6.4	0.4	3.0	0.4
G-94.....	Funk Bros. Seed Co., Belle Plaine.....	5000	100.49	87.27	81.1	20.3	1.7	4.1	3.0	0.3
*W-205.....	Wilson's Hybrids, Harlan.....	Exp.	*100.41	87.36	75.8	18.5	7.3	1.1	2.8	0.0
*Maygold Exp. 50.....	Earl E. May Seed Co., Shenandoah.....	Exp.	*100.39	83.59	79.2	18.4	0.7	1.1	3.0	0.4

Turner S53.....	Turner Hybrid Seed Corn Co., Grand Junction..	1644	100.39	87.46	78.1	19.7	3.6	3.6	3.0	0.4
U. S. Hybrid 35.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	100.37	86.78	83.0	19.1	4.3	2.0	3.0	0.0
G-169.....	Funk Bros. Seed Co., Belle Plaine.....	20000	100.36	86.34	85.3	18.1	3.9	3.1	3.0	0.4
*Iowaleath CL.....	Michael Leonard Co., Sioux City.....	Exp.	*100.26	83.11	78.6	18.7	1.1	0.0	2.8	0.0
Pfister 390.....	Mummert Seed Company, Astoria, Ill.....	500	99.97	90.39	88.6	18.9	12.9	1.8	3.0	0.6
*Iowa Hybrid 4423.....	Farm Crops and U.S.D.A., Ames.....	Exp.	* 99.69	86.93	79.4	20.3	3.2	4.2	3.0	1.1
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	99.66	84.74	80.0	17.9	4.2	2.4	2.8	0.4
*C320.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	* 99.60	86.69	86.4	20.3	4.2	2.9	3.0	1.3
Pioneer 300.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	99.60	90.95	87.2	22.2	11.8	1.3	3.0	0.0
U. S. Hybrid 13.....	Chester Runner, Gilman.....	1000	99.56	86.66	80.3	20.3	2.8	4.5	3.0	1.0
*810.....	W. O. McCurdy & Sons, Fremont.....	Exp.	* 99.54	83.13	79.2	17.5	4.6	0.0	3.0	0.4
Maygold 49.....	Earl E. May Seed Co., Shenandoah.....	30000	99.52	88.63	85.8	19.2	11.3	1.0	3.0	0.7
U. S. Hybrid 13.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	99.45	87.22	88.6	20.7	6.6	1.9	3.0	0.3
117M.....	W. O. McCurdy & Sons, Fremont.....	1250	99.42	82.09	76.3	19.2	0.0	1.3	3.0	0.0
Farmers 509.....	Farmers Hybrid Seed Corn Co., Hampton.....	911	99.36	88.26	85.3	20.7	8.1	2.3	3.0	0.7
129-1.....	Henry Field Hybrid Corn Co., Shenandoah.....	3000	99.34	83.54	81.7	19.1	2.0	2.0	3.0	0.3
Pfister 1897.....	Orcutt Hybrid Corn Co., Monroe.....	5000	99.13	90.51	88.3	18.0	17.3	0.9	2.8	0.3
Iowa Hybrid 306.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	99.05	86.45	73.9	19.1	7.9	2.3	3.0	0.4
218-H.....	Roland Holden, Williamsburg.....	350	98.92	81.12	71.9	18.5	1.5	0.4	2.8	0.0
Dockendorff 13.....	Wm. Dockendorff & Sons, Danville.....	675	98.79	86.46	85.0	20.4	3.9	5.6	3.0	0.3
1904.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	1200	98.76	84.27	79.6	19.1	4.7	2.6	3.0	0.0
Pioneer 334.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	98.66	89.35	83.3	19.7	12.7	3.0	3.0	0.7
Turner T60.....	Turner Hybrid Seed Corn Co., Grand Junction..	1212	98.43	81.33	75.6	19.9	1.1	1.1	3.0	0.0
*C-15 Carlson.....	Carlson Hybrid Corn Co., Audubon.....	Exp.	* 98.34	86.69	86.4	20.7	6.1	4.8	3.0	0.3
Pfister 165.....	Missouri Pfister Growers Inc., Princeton, Mo...	85	98.23	83.25	80.8	18.9	6.2	1.0	3.0	0.3
*Reid Nat'l Hyb. 126R.....	Reid National Corn Co., Anamosa.....	Exp.	* 98.04	82.65	75.3	18.0	3.7	4.1	3.0	0.4
Thompson 82.....	Thompson Hybrid Corn Co., Belmond.....	1800	97.73	79.21	71.4	17.9	2.3	0.4	3.0	0.4
Iowa Hybrid 4060.....	Harold Plumb, Harlan.....	600	97.11	82.25	76.7	17.8	4.0	5.8	3.0	1.1
Iowa Hybrid 4020.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	96.87	79.24	78.3	18.0	2.5	2.8	2.8	0.4
Iowa Hybrid 939.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	96.52	91.15	82.8	19.3	17.8	6.7	3.0	3.7
*Tomahawk 86.....	Thompson Hybrid Corn Co., Belmond.....	Exp.	* 96.07	90.28	85.8	22.0	20.1	2.9	2.8	0.0
Iowaleath 29A.....	Michael Leonard Co., Sioux City.....	8000	96.02	81.81	78.9	20.0	8.1	2.1	3.0	0.4
Cornhusker 50.....	Cornhusker Hybrid Co., Fremont, Nebr.....	2315	95.74	78.55	76.0	21.9	1.3	1.8	3.0	0.4
Pfister 280.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	95.52	81.33	82.8	19.4	11.4	0.3	3.0	0.0
Fed. 169.....	A. G. Thurman, Cedar Rapids.....	600	95.49	75.90	73.1	17.7	1.9	1.5	3.0	1.5
U. S. Hybrid 13.....	Kilpatrick Hybrid Corn Co., Harlan.....	1000	93.60	76.12	69.7	21.9	2.4	2.8	3.0	0.8
DeKalb 639.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	93.23	79.80	83.3	19.5	12.8	2.8	2.6	0.8
*Iowa Hybrid 4435.....	Farm Crops and U.S.D.A., Ames.....	Exp.	* 93.00	70.57	58.9	17.5	0.9	1.4	3.0	0.5
1908.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	1500	92.47	70.42	65.7	19.2	1.0	0.5	2.8	1.0
*Iowa Hybrid 4410.....	Farm Crops and U.S.D.A., Ames.....	Exp.	* 89.38	65.80	52.5	18.9	3.2	0.0	3.0	1.1
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	88.42	74.82	75.3	18.1	18.8	3.7	3.0	2.2
Reid Nat'l Hyb. 129.....	Reid National Corn Co., Anamosa.....	1000	86.70	76.95	80.0	23.1	25.4	1.4	3.0	0.4
Average of all entries.....				86.74	81.8	19.2	5.5	2.1	3.0	0.5

*Experimental entries.

**Differences in yield between any two entries of less than 10.86 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 18. RESULTS FROM DISTRICT NINE, REGULAR AND EXPERIMENTAL CLASS:
TEST PLOT LOCATED NEAR TIPTON IN CEDAR COUNTY.

Variety, name and address of entrant, and bushels produced in 1944			Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct. root stalk		Ear ht.	Dropped ears pct.
*C66.....	Gilbert Cornelius, Bellevue.....	Exp.	*110.77	61.24	87.8	24.0	6.3	11.4	3.0	0.6
Pfister 280.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	109.77	64.69	83.7	26.3	6.4	18.7	3.0	1.2
Iowa Hybrid 4060.....	Harold Plumb, Harlan.....	600	109.70	61.19	86.7	22.6	2.9	18.0	3.0	2.9
*S10.....	W. O. McCurdy & Sons, Fremont.....	Exp.	*109.32	62.02	86.1	24.9	4.5	17.7	3.0	0.0
Iowa Hybrid 306.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	109.05	62.49	85.6	24.3	7.1	16.2	3.2	3.3
McAllister Hybrid 73.....	H. H. McAllister & Son, Mt. Union.....	225	107.99	57.84	86.1	26.3	4.8	10.0	3.5	0.3
*Maygold Exp. 50.....	Earl E. May Seed Co., Shenandoah.....	Exp.	*107.80	59.13	86.4	25.0	4.5	14.5	3.0	1.6
G-37.....	Funk Bros. Seed Co., Belle Plaine.....	7500	106.46	58.02	81.7	25.0	4.1	16.3	3.0	0.0
Iowa Hybrid 4410.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*106.14	58.98	81.7	27.6	4.1	15.9	3.0	1.6
Thompson 82.....	Thompson Hybrid Corn Co., Belmont.....	1800	105.62	57.83	85.0	25.8	11.4	9.8	3.0	0.0
*Iowa Hybrid 4385.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*105.47	56.66	85.6	28.1	4.6	12.0	3.3	0.3
118-H.....	Roland Holden, Williamsburg.....	600	105.25	56.43	90.6	30.0	2.2	12.6	3.2	0.0
Pioneer 339.....	Garst & Thomas Hybrid Corn Co., Coon Rapids..	21500	105.02	56.29	87.8	27.1	6.7	11.1	3.0	0.6
*Iowhealth L 25.....	Michael Leonard Co., Sioux City.....	Exp.	*104.98	60.86	92.2	27.2	1.5	26.2	3.5	0.6
*Reid Nat'l Hyb. 126T.....	Reid National Corn Co., Anamosa.....	Exp.	*104.88	60.66	82.8	26.3	5.0	23.2	3.0	1.3
1904.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	1200	104.75	56.27	82.2	26.8	1.7	16.2	3.0	2.7
987M.....	W. O. McCurdy & Sons, Fremont.....	5200	104.74	56.51	85.0	29.5	3.3	13.4	3.0	0.0
Pfister 165.....	Missouri Pfister Growers Inc., Princeton, Mo...	85	104.48	54.27	85.3	29.5	6.8	5.2	3.2	1.0
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	104.47	52.35	84.2	24.3	2.6	9.9	2.8	3.0
Pfister 1897.....	Orcutt Hybrid Corn Co., Monroe.....	5000	104.39	63.05	87.7	25.3	16.7	19.4	3.2	0.0
Pioneer 340.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	104.32	54.32	87.0	25.0	6.1	10.7	3.0	1.9
Farmers 555.....	Farmers Hybrid Seed Corn Co., Hampton.....	2319	103.68	56.97	83.8	29.0	3.7	17.0	3.2	0.3
H-97.....	McKinney Bros. & Miller, Woodbine.....	1500	103.55	54.90	83.6	28.1	6.3	11.0	3.0	0.7
129L.....	Henry Field Hybrid Corn Co., Shenandoah.....	2500	103.44	54.10	81.9	25.5	6.8	11.2	3.0	2.0
ACE 193.....	Eliason Seed Sales, West Liberty.....	1850	103.24	63.63	81.4	26.3	6.1	32.8	3.7	0.7
Maygold 49.....	Earl E. May Seed Co., Shenandoah.....	30000	103.21	58.49	89.3	30.0	5.6	17.9	3.2	1.9
Iowa Hybrid 4020.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	103.18	50.09	77.5	24.2	2.2	9.7	3.2	0.4
*EX 661.....	Henry Field Hybrid Corn Co., Shenandoah.....	Exp.	*103.15	56.34	81.9	29.0	3.4	17.3	3.5	0.0
*W-205.....	Wilson's Hybrids, Harlan.....	Exp.	*103.11	58.62	87.2	28.9	8.3	16.9	3.0	1.9
Ohio Hybrid C92.....	J. H. Isenhardt, Batavia.....	1300	103.09	58.38	91.7	26.2	7.3	20.9	3.2	0.0
Pfister 164.....	Walden Farm, Keota.....	5000	102.55	58.94	86.7	27.7	10.3	18.9	3.0	0.0
Pioneer 304.....	Pioneer Hi-Bred Corn Co., Des Moines.....	1596	102.34	58.13	86.7	31.5	10.8	13.1	3.0	0.4
*Mullins J 48.....	Mullins Hybrid Corn Co., Britt.....	Exp.	*101.28	57.13	89.7	32.0	5.9	17.7	3.0	0.9
Turner T60.....	Turner Hybrid Seed Corn Co., Grand Junction..	1212	101.16	52.39	80.3	32.4	2.8	10.4	3.3	0.7
DeKalb 404A.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	101.00	59.43	85.0	22.8	7.5	30.7	3.0	2.3
C36.....	Clarke Hybrid Corn Co., Conrad.....	1100	100.60	57.26	88.1	31.5	4.4	21.5	3.2	1.3
117M.....	W. O. McCurdy & Sons, Fremont.....	1250	100.45	57.60	83.9	29.1	4.6	25.2	3.2	0.3
*Iowa Hybrid 4320.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*100.31	61.93	93.1	31.0	3.9	33.7	3.3	0.3
Iowa Hybrid 939.....	Iowa Agr. Exp. Assn., Ames.....	Comp.	100.31	56.79	82.7	24.9	10.1	21.0	3.0	4.8

U. S. Hybrid 13.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	100.29	59.34	90.3	29.5	8.6	24.6	3.5	1.2
*Reid Nat'l Hyb. 126R.....	Reid National Corn Co., Anamosa.....	Exp.	* 99.95	55.19	80.6	24.0	10.7	20.3	3.0	0.3
Turner S53.....	Turner Hybrid Seed Corn Co., Grand Junction..	1644	99.91	54.26	85.0	30.5	6.9	15.0	3.0	1.6
Ohio Hybrid C92.....	Iowa State Hybrid Corn Co., Elkhart.....	1000	99.78	50.37	85.6	31.5	3.9	9.4	3.0	0.0
*Iowa Hybrid 4435.....	Farm Crops and U.S.D.A., Ames.....	Exp.	* 99.69	51.93	83.9	30.0	4.0	13.9	3.0	1.7
Ohio Hybrid C92.....	Blackburn Hybrid Seed Corn Co., Grand Junction	500	99.64	53.08	86.7	32.4	5.8	12.5	3.2	1.0
Pioneer 334.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	99.45	54.85	91.3	30.9	9.1	15.0	3.2	1.1
Pioneer 339.....	Pioneer Hi-Bred Corn Co., Des Moines.....	4771	99.38	54.00	86.4	29.5	9.0	14.3	3.2	1.3
*4494 x 4493.....	Genetics Section, Ames.....	Exp.	* 98.95	55.89	88.9	33.6	6.9	17.5	3.0	2.2
Pfister 390.....	Mummert Seed Company, Astoria, Ill.....	500	98.47	59.65	88.9	29.0	13.1	25.9	3.2	0.6
Cornhusker 148.....	Cornhusker Hybrid Co., Fremont, Nebr.....	12660	98.24	56.01	88.7	31.5	4.9	24.1	3.0	1.1
Pioneer 336.....	Pioneer Hi-Bred Corn Co., Des Moines.....	10636	97.88	52.02	88.6	31.0	11.0	11.0	3.2	0.3
U. S. Hybrid 13.....	Kilpatrick Hybrid Corn Co., Harlan.....	1000	97.86	56.40	85.8	30.9	10.4	21.0	3.3	1.0
*C320.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	* 97.73	55.61	88.6	31.0	5.3	24.5	3.0	1.3
U. S. Hybrid 35.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	97.45	55.56	84.0	32.0	2.0	27.4	3.2	1.2
Ohio Hybrid C92.....	Iowa-Missouri Hybrid Corn Co., Keosauqua.....	400	97.06	54.22	85.6	30.4	3.9	25.3	3.2	0.7
Fed. 169.....	A. G. Thurman, Cedar Rapids.....	600	96.91	50.89	79.3	27.7	7.6	17.7	3.0	0.4
G-94.....	Funk Bros. Seed Co., Belle Plaine.....	5000	96.86	58.34	86.4	30.0	4.5	34.7	3.3	0.3
G-169.....	Funk Bros. Seed Co., Belle Plaine.....	20000	96.46	51.54	81.7	29.0	8.5	18.0	3.8	0.0
Cornhusker 50.....	Cornhusker Hybrid Co., Fremont, Nebr.....	2315	96.19	50.03	84.4	31.0	5.3	16.5	3.3	0.3
U. S. Hybrid 13.....	B. C. Hudson, Knoxville.....	500	96.19	57.35	83.6	29.4	4.3	34.9	3.7	0.7
124M.....	W. O. McCurdy & Sons, Fremont.....	5000	96.09	56.38	92.2	25.8	12.4	28.6	3.7	0.9
129-1.....	Henry Field Hybrid Corn Co., Shenandoah.....	3000	96.02	54.18	84.4	31.0	7.6	23.4	3.2	0.7
Farmers 509.....	Farmers Hybrid Seed Corn Co., Hampton.....	911	95.77	54.58	75.8	29.5	18.7	15.4	3.3	0.7
*Iowaleath CL.....	Michael Leonard Co., Sioux City.....	Exp.	* 95.62	49.42	76.7	35.7	4.7	12.3	3.0	0.0
Pioneer 336.....	Garst & Thomas Hybrid Corn Co., Coon Rapids..	15709	95.35	55.92	83.6	28.5	15.6	23.6	3.2	0.3
H-99.....	McKinney Bros. & Miller, Woodbine.....	4000	94.95	57.72	83.9	30.0	6.0	36.1	3.5	1.7
*4497 x 4496.....	Genetics Section, Ames.....	Exp.	* 94.84	51.89	87.8	34.9	10.1	14.6	3.0	1.3
*Tomahawk 88.....	Thompson Hybrid Corn Co., Belmond.....	Exp.	* 93.98	57.79	88.1	35.0	15.5	24.0	3.2	1.6
*Iowa Hybrid 4423.....	Farm Crops and U.S.D.A., Ames.....	Exp.	* 93.97	54.66	85.3	26.3	11.4	30.0	3.2	2.3
*C321.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	* 93.83	52.81	76.9	33.0	10.8	20.2	3.0	1.4
U. S. Hybrid 13.....	Chester Runner, Gilman.....	1000	93.07	54.44	83.9	30.4	9.6	29.5	3.7	1.7
218-H.....	Roland Holden, Williamsburg.....	350	92.99	50.79	77.0	33.6	5.2	22.9	3.0	1.3
Dockendorff 13.....	Wm. Dockendorff & Sons, Danville.....	675	92.83	55.70	89.4	30.0	7.1	35.7	3.7	1.6
*Tomahawk 86.....	Thompson Hybrid Corn Co., Belmond.....	Exp.	* 92.73	62.66	92.2	32.4	13.9	42.2	3.5	0.9
1908.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	1500	92.72	50.15	81.3	34.1	4.5	22.5	3.0	0.8
U. S. Hybrid 13.....	Marion Coppock, Ankeny.....	350	92.60	53.42	85.6	30.4	10.4	27.6	3.3	1.6
Iowaleath 29A.....	Michael Leonard Co., Sioux City.....	8000	91.92	47.43	80.8	33.0	4.8	19.6	3.5	0.3
Reid Nat'l Hyb. 129.....	Reid National Corn Co., Anamosa.....	1000	91.12	50.10	82.2	32.5	13.2	19.3	3.5	1.0
*C-15 Carlson.....	Carlson Hybrid Corn Co., Audubon.....	Exp.	* 90.83	50.93	88.3	35.8	13.2	18.2	3.0	1.3
DeKalb 639.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	89.85	49.55	79.3	33.5	6.3	26.9	3.0	1.3
Pioneer 300.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	89.52	51.12	87.3	37.4	13.7	14.9	3.2	0.8
	Average of all entries.....			55.93	85.2	29.2	7.3	19.6	3.2	1.0

*Experimental entries.

**Differences in yield between any two entries of less than 5.63 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

TABLE 19. RESULTS FROM DISTRICT TEN, REGULAR AND EXPERIMENTAL CLASS:
TEST PLOT LOCATED NEAR HASTINGS IN MILLS COUNTY.

Variety, name and address of entrant, and bushels produced in 1944				Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct. root stalk		Ear ht.	Dropped ears pct.
*Reid Nat'l Hyb. 129R.....	Reid National Corn Co., Anamosa.....	Exp.	*117.56	105.46	86.4	19.3	11.9	14.8	3.8	0.0	
ACE 43.....	Eliason Seed Sales, West Liberty.....	****	116.99	101.03	89.4	18.9	6.8	16.8	3.7	0.0	
218-H.....	Roland Holden, Williamsburg.....	350	116.16	96.33	85.8	18.5	6.2	14.6	3.7	0.0	
Pioneer 333.....	Pioneer Hi-Bred Corn Co., Des Moines.....	3595	112.66	96.62	88.9	19.3	5.0	21.9	3.7	0.0	
*Maygold Exp. 50.....	Earl E. May Seed Co., Shenandoah.....	Exp.	*111.01	100.39	92.8	20.4	12.6	20.1	4.0	0.9	
G-37.....	Funk Bros. Seed Co., Belle Plaine.....	7500	110.57	95.56	91.1	17.2	15.2	15.9	3.7	0.0	
Pioneer 317.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	5748	109.29	91.02	87.5	18.9	10.2	17.1	3.7	1.6	
Pioneer 330.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	107.49	90.70	91.7	19.6	22.7	7.3	3.2	0.9	
Pioneer Exp. 00693.....	Pioneer Hi-Bred Corn Co., Des Moines.....	****	107.40	102.53	96.1	20.2	15.6	26.0	3.3	0.6	
Illinois Hybrid 201.....	B. C. Hudson, Knoxville.....	400	107.15	95.82	93.1	18.1	7.8	29.3	4.2	0.0	
*Iowa Hybrid 4320.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*106.83	95.27	90.0	21.0	13.9	21.0	3.8	0.6	
Pfister 165.....	Missouri Pfister Growers Inc., Princeton, Mo.....	85	106.83	96.57	90.6	18.1	22.1	16.3	3.7	0.0	
*Iowa Hybrid 4383.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*105.85	86.94	87.2	18.4	13.1	17.2	3.5	0.3	
Turner 553.....	Turner Hybrid Seed Corn Co., Grand Junction.....	1644	105.26	93.22	93.9	20.7	17.8	18.3	3.7	0.0	
DeKalb 800A.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	105.21	91.18	90.6	18.5	15.6	19.3	4.0	1.8	
Pioneer 336.....	Garst & Thomas Hybrid Corn Co., Coon Rapids.....	15709	105.20	102.38	94.2	19.1	12.7	33.3	3.8	1.5	
*EX 571.....	Henry Field Hybrid Corn Co., Shenandoah.....	Exp.	*104.52	94.48	90.8	20.7	11.0	27.5	4.2	0.6	
Funk G-94.....	Funk G-94.....	***	104.43	92.00	86.1	20.5	10.0	26.5	3.8	0.3	
*C-32 Carlson.....	Carlson Hybrid Corn Co., Audubon.....	Exp.	*104.35	91.86	91.1	22.1	14.0	21.3	3.7	0.3	
Funk G-169.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	104.02	91.01	88.1	19.2	11.0	25.6	4.0	2.2	
Ohio Hybrid C92.....	Iowa-Missouri Hybrid Corn Co., Keosauqua.....	400	103.97	96.57	94.4	19.3	17.7	24.7	3.7	1.5	
Pioneer 336.....	Pioneer Hi-Bred Corn Co., Des Moines.....	10636	103.80	100.41	94.4	19.5	10.6	36.2	3.8	0.0	
*C321.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	*103.02	93.41	90.3	22.5	14.2	24.9	4.0	0.3	
Cornhusker 50.....	Cornhusker Hybrid Co., Fremont, Nebr.....	2315	102.73	92.57	86.7	21.2	22.1	17.6	3.8	0.0	
Dockendorff 13.....	Wm. Dockendorff & Sons, Danville.....	675	102.73	97.70	94.4	20.3	7.7	37.7	4.0	0.6	
Farmers 555.....	Farmers Hybrid Seed Corn Co., Hampton.....	2319	102.72	95.66	97.2	19.4	20.6	23.4	3.5	0.3	
123M.....	W. O. McCurdy & Sons, Fremont.....	2000	102.67	94.23	90.8	19.7	14.1	28.1	4.0	1.2	
*Iowa Hybrid 4423.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*102.54	98.33	87.5	19.4	12.4	34.6	4.0	0.3	
Iowearth 29A.....	Michael Leonard Co., Sioux City.....	8000	102.27	90.20	92.5	19.9	20.4	18.6	3.7	0.3	
Pioneer Exp. 20547.....	Pioneer Hi-Bred Corn Co., Des Moines.....	53	102.09	90.53	91.9	22.4	21.5	16.6	3.3	0.0	
124M.....	W. O. McCurdy & Sons, Fremont.....	5000	101.97	91.14	88.3	18.6	10.7	30.8	3.8	0.0	
124-H.....	Roland Holden, Williamsburg.....	1100	101.60	100.20	94.7	19.6	17.9	32.6	4.0	0.3	
Fed. 169.....	A. G. Thurman, Cedar Rapids.....	600	100.87	88.25	89.4	18.9	10.9	29.5	4.0	0.3	
ACE 193.....	Eliason Seed Sales, West Liberty.....	1850	100.39	89.25	88.3	22.1	10.7	29.3	3.7	0.6	
Iowearth 25A.....	Michael Leonard Co., Sioux City.....	3800	100.18	91.41	90.3	21.8	13.2	29.5	4.0	0.3	
U. S. Hybrid 35.....	Iowa Corn & Small Grain Growers' Assn., Ames.....	***	100.07	96.93	93.9	19.6	24.3	25.7	4.0	0.3	
Tomahawk 7W.....	Thompson Hybrid Corn Co., Belmond.....	200	99.91	79.98	86.1	23.0	21.9	9.0	4.0	0.7	
*Reid Nat'l Hyb. 126R.....	Reid National Corn Co., Anamosa.....	Exp.	*99.84	95.07	83.3	17.3	20.8	29.2	4.0	0.8	
Turner T60.....	Turner Hybrid Seed Corn Co., Grand Junction.....	1212	99.82	87.84	87.8	18.0	20.9	21.5	3.8	0.6	
*Iowa Hybrid 4416.....	Farm Crops and U.S.D.A., Ames.....	Exp.	*99.80	87.88	93.6	21.5	9.8	30.0	3.8	1.8	
Ohio Hybrid C92.....	Kilpatrick Hybrid Corn Co., Harlan.....	400	99.76	88.08	91.7	17.6	19.7	23.3	3.8	0.6	

987M.....	W. O. McCurdy & Sons, Fremont.....	5200	99.66	94.95	94.2	18.9	24.2	25.1	3.8	0.3
*810.....	W. O. McCurdy & Sons, Fremont.....	Exp.	* 99.61	92.18	93.1	17.5	28.4	19.1	3.5	0.6
H-99.....	McKinney Bros. & Miller, Woodbine.....	4000	99.52	91.67	89.3	21.7	11.9	32.5	4.2	0.0
Maygold 49.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	99.43	88.85	94.2	18.1	20.9	23.3	3.5	0.0
Pioneer 332.....	Garst & Thomas Hybrid Corn Co., Coon Rapids..	27101	99.38	91.43	93.3	25.0	16.1	26.1	4.0	0.0
Meyer Hybrid No. 541.....	Clarence Meyer, Winterset.....	1910	99.22	90.61	95.8	20.8	22.0	22.3	3.8	0.6
Ohio Hybrid C92.....	Iowa State Hybrid Corn Co., Elkhart.....	1000	99.17	90.30	93.3	17.7	24.7	21.7	3.3	0.0
Vinton V 98.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	99.08	78.58	75.6	20.2	10.7	22.4	4.0	0.4
U. S. Hybrid 13.....	B. C. Hudson, Knoxville.....	500	98.90	97.71	91.1	19.7	13.4	39.3	3.8	0.6
1904A.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	700	98.58	94.17	93.6	19.1	15.1	35.0	3.8	0.9
U. S. Hybrid 13.....	Lincoln Seed Co., Pacific Junction.....	3000	98.38	93.30	90.8	19.5	12.8	36.7	3.8	0.3
*C-26 Carlson.....	Carlson Hybrid Corn Co., Audubon.....	Exp.	* 98.05	98.98	96.1	21.1	29.5	25.1	3.5	0.6
Farmers 688.....	Farmers Hybrid Seed Corn Co., Hampton.....	625	97.90	94.98	92.2	21.1	18.1	32.8	4.2	0.6
DeKalb 827.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	97.60	87.32	84.4	19.1	18.8	26.6	3.7	0.0
*820.....	W. O. McCurdy & Sons, Fremont.....	Exp.	* 97.43	84.06	89.7	20.5	14.6	26.9	4.0	0.0
Reid Nat'l Hyb. 127.....	Reid National Corn Co., Anamosa.....	1030	97.29	89.13	93.1	19.7	23.9	23.3	4.0	0.6
Ohio Hybrid C92.....	H. H. McAllister & Son, Mt. Union.....	1800	97.27	88.85	92.8	18.1	25.5	22.8	3.5	0.0
Pfister 164.....	Walden Farm, Keota.....	5000	97.25	86.20	91.4	19.0	22.5	22.5	3.3	0.0
135R.....	Henry Field Hybrid Corn Co., Shenandoah.....	4000	96.60	89.42	86.7	20.7	12.2	35.6	3.8	1.6
U. S. Hybrid 13.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	96.26	96.61	95.3	21.0	18.7	37.0	4.0	0.3
*C320.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	* 95.62	95.14	95.0	23.0	19.0	35.1	3.7	0.0
*Iowaleth L 25A.....	Michael Leonard Co., Sioux City.....	Exp.	* 95.61	94.95	94.4	21.1	32.4	22.7	4.3	0.9
Thompson 82.....	Thompson Hybrid Corn Co., Belmond.....	1800	95.24	89.93	91.0	19.0	34.8	17.6	3.6	0.0
4221.....	J. H. Isenhardt, Batavia.....	900	94.87	85.68	95.8	20.5	17.7	29.9	3.7	0.9
H-97.....	McKinney Bros. & Miller, Woodbine.....	1500	94.75	83.77	90.0	20.2	25.9	20.4	3.5	0.0
Maygold 39.....	Earl E. May Seed Co., Shenandoah.....	1400	94.67	85.98	89.2	19.4	13.1	36.1	4.0	0.0
Cornhusker 30.....	Cornhusker Hybrid Corn Co., Fremont, Nebr.....	3940	94.49	91.28	88.0	23.1	34.1	18.2	4.0	0.0
*Pfister 660.....	Missouri Pfister Growers Inc., Princeton, Mo...	Exp.	* 94.49	82.54	90.8	27.3	28.4	12.2	4.2	0.0
C-33 Carlson.....	Carlson Hybrid Corn Co., Audubon.....	5000	93.20	85.47	88.9	18.6	24.1	27.8	3.8	0.3
*Iowaleth L25.....	Michael Leonard Co., Sioux City.....	Exp.	* 93.12	86.62	93.9	16.8	18.9	47.3	4.0	0.6
Meyer Hybrid No. 530.....	Clarence Meyer, Winterset.....	135	93.06	89.54	96.7	18.4	28.7	27.6	3.5	0.3
Ohio Hybrid C92.....	J. H. Isenhardt, Batavia.....	1300	92.71	88.89	94.7	18.7	29.9	26.1	3.8	0.6
G-80.....	Funk Bros. Seed Co., Belle Plaine.....	10000	92.14	97.66	92.5	21.8	36.3	27.3	4.2	0.6
Pioneer 300.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	91.93	91.67	96.1	22.1	31.2	26.6	3.8	0.9
135L.....	Henry Field Hybrid Corn Co., Shenandoah.....	2000	91.83	92.97	90.3	19.9	24.3	36.3	3.8	1.5
GOLDLINE 378.....	Bruns Seed Company, Davenport.....	100	89.47	92.92	85.6	22.7	34.7	28.6	4.0	0.3
1904.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	1200	86.56	74.39	95.3	19.4	21.0	31.5	3.8	0.3
*Mullins J 46.....	Mullins Hybrid Corn Co., Britt.....	Exp.	* 86.09	84.76	90.8	20.8	31.5	31.2	3.7	0.3
*Tomahawk 92.....	Thompson Hybrid Corn Co., Belmond.....	Exp.	* 82.50	87.29	88.9	25.1	27.5	41.3	3.8	0.6
*Cornhusker 63.....	Cornhusker Hybrid Corn Co., Fremont, Nebr.....	Exp.	* 79.69	93.23	78.1	17.7	79.0	5.7	3.2	1.4
	Average of all entries.....			92.12	90.9	20.1	19.4	25.5	3.8	0.5

*Experimental entries.

**Differences in yield between any two entries of less than 9.05 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

****Fifty-five bushels produced in 1943.

*****Fifty bushels produced in 1943.

TABLE 20. RESULTS FROM DISTRICT TWELVE, REGULAR AND EXPERIMENTAL CLASS:
TEST PLOT LOCATED NEAR MT. UNION IN HENRY COUNTY.

Variety, name and address of entrant, and bushels produced in 1944			Perform- ance score	Acre yield bu.**	Stand pct.	Moist. pct.	Lodging pct. root stalk		Ear ht.	Dropped ears pct.
*Maygold Exp. 50	Earl E. May Seed Co., Shenandoah	Exp.	*129.13	89.19	84.2	17.7	31.0	21.1	3.2	0.0
ACE 43	Eliason Seed Sales, West Liberty	***	121.98	82.83	87.8	18.6	33.9	20.9	3.0	0.0
H-97	McKinney Bros. & Miller, Woodbine	1500	118.86	84.22	88.6	18.4	40.8	17.6	3.2	0.0
Turner T60	Turner Hybrid Seed Corn Co., Grand Junction	1212	116.62	84.95	90.6	18.2	40.2	20.6	3.0	0.0
Fed. 169	A. G. Thurman, Cedar Rapids	600	114.75	78.02	87.2	18.2	42.0	16.6	3.3	0.6
Ohio Hybrid C92	J. H. Isenhardt, Batavia	1300	113.05	86.80	88.1	17.8	50.5	14.5	3.3	0.0
G-37	Funk Bros. Seed Co., Belle Plaine	7500	112.83	80.57	86.4	17.8	31.8	29.9	3.7	1.0
Ohio Hybrid C92	Iowa-Missouri Hybrid Corn Co., Keosauqua	400	112.38	85.23	91.7	18.2	38.8	25.8	3.2	0.6
Ohio Hybrid C92	Iowa State Hybrid Corn Co., Elkhart	1000	110.48	85.65	92.2	17.9	50.9	15.7	3.2	0.3
*Iowa Hybrid 4383	Farm Crops and U.S.D.A., Ames	Exp.	*110.31	91.21	88.9	17.8	46.3	23.4	3.0	0.3
Pioneer 330	Iowa Corn & Small Grain Growers' Assn., Ames	***	109.14	83.95	90.3	18.9	50.5	16.0	3.0	0.6
U. S. Hybrid 13	Iowa Corn & Small Grain Growers' Assn., Ames	***	108.75	90.50	90.8	19.8	40.7	29.4	3.7	0.3
Farmers 555	Farmers Hybrid Seed Corn Co., Hampton	2319	108.44	87.56	88.3	18.6	28.9	40.3	3.3	0.0
218-H	Roland Holden, Williamsburg	350	107.67	84.20	90.6	18.5	38.0	30.1	3.3	0.0
*Iowaleth L25	Michael Leonard Co., Sioux City	Exp.	*107.55	90.95	92.8	18.2	23.7	48.2	3.3	0.3
Ohio Hybrid C92	H. H. McAllister & Son, Mt. Union	1800	106.78	87.35	93.1	18.8	46.0	24.5	3.3	0.0
Ohio Hybrid C92	Kilpatrick Hybrid Corn Co., Harlan	400	106.27	86.62	92.0	18.4	43.5	27.2	3.6	0.0
*Reid Nat'l Hyb. 129R	Reid National Corn Co., Anamosa	Exp.	*105.65	84.16	82.8	19.7	46.6	22.8	3.0	0.0
Thompson 82	Thompson Hybrid Corn Co., Belmond	1800	105.08	84.12	89.7	17.5	51.1	19.5	3.5	0.6
1904A	McNeilly Hybrid Seedcorn Co., Maquoketa	700	104.64	79.63	89.4	19.9	31.1	36.7	3.7	1.2
Maygold 49	Iowa Corn & Small Grain Growers' Assn., Ames	***	104.29	88.87	91.7	18.1	42.1	31.5	3.3	0.3
422L	J. H. Isenhardt, Batavia	900	104.08	81.59	88.9	20.7	42.5	26.6	3.2	0.6
Turner S53	Turner Hybrid Seed Corn Co., Grand Junction	1644	103.94	81.83	86.9	19.8	45.7	24.0	3.3	0.3
U. S. Hybrid 35	Iowa Corn & Small Grain Growers' Assn., Ames	***	103.83	84.19	90.0	20.0	33.0	38.0	3.0	0.0
Funk G-169	Iowa Corn & Small Grain Growers' Assn., Ames	***	103.02	81.01	87.5	18.2	41.0	29.5	3.3	1.0
DeKalb 800A	Iowa Corn & Small Grain Growers' Assn., Ames	***	102.46	87.18	91.7	19.5	44.2	29.7	3.3	0.0
Cornhusker 50	Cornhusker Hybrid Co., Fremont, Nebr.	2315	102.19	73.35	85.3	21.6	37.8	23.3	3.3	0.0
U. S. Hybrid 13	Lincoln Seed Co., Pacific Junction	3000	101.97	81.68	86.4	18.6	38.3	33.4	3.5	0.3
*Reid Nat'l Hyb. 126R	Reid National Corn Co., Anamosa	Exp.	*101.92	83.45	85.0	18.0	44.1	28.8	3.7	0.3
135R	Henry Field Hybrid Corn Co., Shenandoah	4000	101.76	80.18	86.1	19.8	40.0	30.7	3.8	0.7
Pioneer 336	Pioneer Hi-Bred Corn Co., Des Moines	10636	101.62	84.57	92.5	18.6	45.7	27.9	3.3	0.0
Meyer Hybrid No. 530	Clarence Meyer, Winterset	135	101.50	83.73	91.7	18.1	50.3	23.0	3.2	0.6
C-33 Carlson	Carlson Hybrid Corn Co., Audubon	5000	101.26	87.80	92.2	17.7	47.0	28.9	3.3	0.0
Reid Nat'l Hyb. 127	Reid National Corn Co., Anamosa	1030	101.26	83.66	86.1	20.0	59.7	13.2	3.7	0.3
Pioneer 333	Pioneer Hi-Bred Corn Co., Des Moines	3595	101.22	82.80	86.4	18.6	52.7	20.3	3.0	0.0
987M	W. O. McCurdy & Sons, Fremont	5200	101.15	87.53	90.8	18.6	42.2	33.3	3.2	0.3
*Iowa Hybrid 4423	Farm Crops and U.S.D.A., Ames	Exp.	*101.13	89.38	93.6	18.5	45.4	31.2	3.5	0.3
*C821	Clarke Hybrid Corn Co., Conrad	Exp.	*100.87	79.56	82.8	20.8	44.0	26.9	3.2	0.3
Pfister 164	Walden Farm, Keota	5000	100.57	87.25	90.3	19.2	44.3	31.4	3.2	0.3
*810	W. O. McCurdy & Sons, Fremont	Exp.	*99.76	80.25	92.2	20.4	47.0	25.3	3.2	0.3
Pioneer Exp. 20547	Pioneer Hi-Bred Corn Co., Des Moines	53	99.43	84.78	88.9	20.5	53.4	21.6	3.0	0.0

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DeKalb 827.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	99.34	81.79	88.9	19.7	35.0	38.8	3.2	0.0
124M.....	W. O. McCurdy & Sons, Fremont.....	5000	99.34	85.29	90.3	19.2	43.7	32.0	3.5	0.6
*C-32 Carlson.....	Carlson Hybrid Corn Co., Audubon.....	Exp.	* 99.09	76.85	85.6	21.4	41.2	29.6	3.2	0.0
*EX 571.....	Henry Field Hybrid Corn Co., Shenandoah.....	Exp.	* 98.95	84.05	90.8	18.8	60.9	14.7	3.3	0.3
Pfister 165.....	Missouri Pfister Growers Inc., Princeton, Mo.....	85	98.88	81.38	83.1	17.6	44.5	30.1	3.3	0.3
1904.....	McNeilly Hybrid Seedcorn Co., Maquoketa.....	1200	98.27	83.53	89.4	20.0	42.6	32.9	3.0	0.3
G-80.....	Funk Bros. Seed Co., Belle Plaine.....	10000	98.18	78.63	88.6	22.7	36.4	35.7	3.7	0.0
U. S. Hybrid 13.....	B. C. Hudson, Knoxville.....	500	98.08	85.29	88.1	18.8	38.2	38.8	4.0	0.3
Pioneer 317.....	Garst & Thomas Hybrid Corn Co., Coon Rapids..	5748	97.53	82.16	81.9	18.5	60.7	15.3	3.2	0.0
*Iowa Hybrid 4416.....	Farm Crops and U.S.D.A., Ames.....	Exp.	* 97.32	85.30	87.2	19.7	52.6	24.8	3.3	0.0
*Iowa Hybrid 4320.....	Farm Crops and U.S.D.A., Ames.....	Exp.	* 96.51	87.33	86.1	21.0	34.5	44.2	3.5	0.3
Farmers 688.....	Farmers Hybrid Seed Corn Co., Hampton.....	625	96.22	84.27	89.7	20.0	36.8	40.9	4.0	0.0
Pioneer 332.....	Garst & Thomas Hybrid Corn Co., Coon Rapids..	27101	95.97	83.32	88.3	22.8	40.9	35.9	3.8	0.3
H-99.....	McKinney Bros. & Miller, Woodbine.....	4000	95.91	83.32	88.9	19.8	37.5	40.0	3.5	0.3
*820.....	W. O. McCurdy & Sons, Fremont.....	Exp.	* 95.85	80.34	83.6	20.5	49.8	25.9	3.7	0.3
Iowaleth 25A.....	Michael Leonard Co., Sioux City.....	3800	95.62	73.46	81.7	20.0	43.9	28.6	3.3	0.3
Pioneer 336.....	Garst & Thomas Hybrid Corn Co., Coon Rapids..	15709	95.42	86.82	91.9	20.0	46.5	33.5	3.3	0.3
*C320.....	Clarke Hybrid Corn Co., Conrad.....	Exp.	* 95.36	75.88	90.3	20.5	42.2	31.7	3.3	0.0
Vinton V 98.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	95.25	78.85	87.5	20.4	34.9	40.6	3.3	0.0
123M.....	W. O. McCurdy & Sons, Fremont.....	2000	94.48	84.86	90.3	19.2	39.8	40.1	3.7	0.0
Meyer Hybrid No. 541.....	Clarence Meyer, Winterset.....	1910	94.24	76.53	86.9	19.8	46.7	28.8	3.0	0.0
Illinois Hybrid 201.....	B. C. Hudson, Knoxville.....	400	93.56	83.35	90.8	19.1	48.9	30.9	3.7	0.3
Pioneer Exp. 00693.....	Pioneer Hi-Bred Corn Co., Des Moines.....	****	93.42	79.27	87.2	19.4	54.5	23.3	3.0	0.0
Pioneer 300.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	93.15	84.85	91.4	20.4	56.2	24.3	3.3	0.3
GOLDLINE 378.....	Bruns Seed Company, Davenport.....	100	92.65	82.80	86.1	21.9	37.1	42.3	3.8	0.7
Iowaleth 29A.....	Michael Leonard Co., Sioux City.....	8000	91.79	78.50	82.8	19.8	49.0	29.5	3.2	0.0
135L.....	Henry Field Hybrid Corn Co., Shenandoah.....	2000	91.79	75.83	81.9	20.4	41.7	35.3	3.8	0.3
Funk G-94.....	Iowa Corn & Small Grain Growers' Assn., Ames	***	91.65	86.10	89.7	20.0	42.7	39.9	3.5	0.3
*Cornhusker 30.....	Cornhusker Hybrid Co., Fremont, Nebr.....	3940	91.42	75.93	87.8	22.8	42.1	34.5	3.5	0.0
124-H.....	Roland Holden, Williamsburg.....	1100	91.28	82.80	90.6	18.1	46.3	35.6	3.7	0.0
*Mullins J 46.....	Mullins Hybrid Corn Co., Britt.....	Exp.	* 91.16	84.87	87.5	21.6	45.4	36.5	3.7	0.3
ACE 193.....	Eliason Seed Sales, West Liberty.....	1850	90.64	84.90	89.2	19.3	38.6	44.6	3.7	0.0
Tomahawk 7W.....	Thompson Hybrid Corn Co., Belmont.....	200	90.57	64.81	82.2	22.8	53.0	18.2	4.0	1.0
Maygold 39.....	Earl E. May Seed Co., Shenandoah.....	1400	90.19	77.69	89.7	21.6	33.8	45.2	3.5	0.3
Dockendorff 13.....	Wm. Dockendorff & Sons, Danville.....	675	87.73	86.27	90.8	20.8	32.4	53.5	3.8	0.3
*Iowaleth L 25A.....	Michael Leonard Co., Sioux City.....	Exp.	* 86.55	81.88	91.4	21.1	45.9	38.6	3.8	0.6
*C-26 Carlson.....	Carlson Hybrid Corn Co., Audubon.....	Exp.	* 84.17	78.18	88.1	21.6	46.4	38.2	3.3	0.0
*Pfister 660.....	Missouri Pfister Growers Inc., Princeton, Mo...	Exp.	* 83.51	61.01	83.6	26.4	54.5	19.9	4.0	0.0
*Cornhusker 63.....	Cornhusker Hybrid Co., Fremont, Nebr.....	Exp.	* 80.95	84.99	85.3	19.0	72.3	19.5	3.0	0.0
*Tomahawk 92.....	Thompson Hybrid Corn Co., Belmont.....	Exp.	* 78.81	82.53	90.0	26.4	42.6	47.8	3.3	0.0
Average of all entries.....				82.70	88.4	19.7	43.7	29.9	3.4	0.3

*Experimental entries.

**Differences in yield between any two entries of less than 5.75 bushels an acre are not considered significant.

***Widely grown hybrids as determined by a survey of farmers.

****Fifty-five bushels produced in 1943.

*****Fifty bushels produced in 1943.

STATISTICAL ANALYSIS

Regardless of the method of testing used, it is not possible to determine relative yielding ability with absolute accuracy. Differences in yield may occur between two plots planted from the same lot of seed. In most cases these differences are due to differences in soil or differences in stand. To keep such differences at a minimum, six plots of each entry were planted in each test field. Even with replication, differences exist which are due to chance. For this reason one should not conclude that one variety is higher yielding than another when yield test data indicate relatively small differences between them. Methods of calculation are available for determining how large a difference is necessary for significance. This has been determined for each district and each section and is included as a footnote to the tables.

The triple lattice design has proven very effective as a means of removing some of the variation noted above. For this reason it was used as the design for each field. The analysis of variance for each district, together with the coefficients of variability, is given in table 21.

TABLE 21. DEGREES OF FREEDOM AND MEAN SQUARES FOR THE VARIETY AND ERROR COMPONENTS OF THE ANALYSIS OF VARIANCE AND THE COEFFICIENT OF VARIABILITY IN EACH OF THE DISTRICT TESTS IN 1945.

	DF.	MS.	DF.	MS.	DF.	MS.
	Dist. 1		Dist. 4		Dist. 5	
Varieties	80	23.51**	80	20.79**	80	12.53**
Error	350	3.62	336	4.99	349	3.24
Coefficient of Variability.....	8.12		10.59		10.29	
	Dist. 6		Dist. 7		Dist. 8	
Varieties	80	14.64**	80	32.27**	80	35.87**
Error	348	3.99	342	6.56	337	10.74
Coefficient of Variability.....	5.44		8.28		10.35	
	Dist. 9		Dist. 10		Dist. 12	
Varieties	80	21.19**	80	35.89**	80	23.99**
Error	337	4.16	347	9.86	351	3.06
Coefficient of Variability.....	8.73		8.52		6.02	

**Exceeds 1 percent level of significance.

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